

USED, DENOTES CONDOC

REFERENCE TO KEYNOTE

AND SPECIFICATIONS

NEW CONSTRUCTION

# **GENERAL NOTES & SPECIFICATIONS**

### **DIVISION 0 - CONTRACTING REQUIREMENTS**

- THROUGHOUT THE DOCUMENTS HEREIN, THE TERM 'OWNER' SHALL MEAN THE TOWN OF
- GENERAL CONTRACTOR SHALL UTILIZE BIDDING FORMS INCLUDED IN THE SPECIFICATIONS INCLUDING BUT NOT LIMITED TO FORMS RELATED TO: INSURANCE, BONDS, PAYMENT PROCEDURES, ETC. (SEE SPECIFICATIONS)

## **DIVISION 1 - GENERAL REQUIREMENTS**

ALL WORK SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE BUILDING CODES, OTHER

ALL WORK SHALL BE PERFORMED BY QUALIFIED AND APPROPRIATELY LICENSED

- APPLICABLE CODES & ORDINANCES, AND ALL AUTHORITIES HAVING JURISDICTION.
- DUE TO THE NATURE OF AN OCCUPIED RENOVATION, THE OWNER SHALL BE RESPONSIBLE FOR VACATING AREAS WITHIN THE SCOPE AREA FOR EACH PHASE OF WORK PRIOR TO WORK/DEMOLITION COMMENCEMENT BY THE CONTRACTOR. THIS INCLUDES THE REMOVAL/RELOCATION OF ALL FURNISHINGS, EQUIPMENT, RECORDS, ETC., WHICH THE OWNER WOULD LIKE TO RETAIN
- THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL REGARDING DEMOLISHED ITEMS, HOWEVER THE OWNER SHALL NOTIFY THE CONTRACTOR IN WRITING PRIOR TO DEMOLITION REGARDING ANY ITEMS THE OWNER WISHES TO SAVE.
- THE BUILDING MUST REMAIN IN UNINTERRUPTED USE BY THE OWNER THROUGHOUT THE PROJECT. ACCORDINGLY, WORK HOURS, TOLERABLE LEVELS OF NOISE/DISTURBANCE, UTILITIY INTERRUPTIONS, ETC. SHALL BE COORDINATED WITH THE OWNER AND CLARIFIED/CONFIRMED IN WRITING PRIOR TO BIDDING.
- EACH BIDDER SHALL FURNISH A SITE LOGISTICS PLAN THAT ADDRESSES PROPOSED STAGING SPACE, SITE ACCESS, CONSTRUCTION AND BUILDING WASTE MANAGEMENT, DELIVERIES FOR CONSTRUCTION AND OWNER BUILDING OPERATIONS, SAFE ACCESS AND EGRESS FROM OCCUPIED SPACES, ETC. PLANS MUST TAKE OWNER OPERATIONS INTO ACCOUNT. CONTRACTOR SHALL RECEIVE OWNER APPROVAL OF SUCH PLANS PRIOR TO PROCEEDING
- CONTRACTOR SHALL BE PERMITTED TO UTILIZE BUILDING UTILITIES (RESTROOMS, POWER, WATER) FOR THE PURPOSES OF CONSTRUCTION WITHOUT NEEDING TO ACCOUNT FOR SUCH COSTS AND/OR TEMPORARY RESTROOMS, A JOB TRAILER, ETC. THE CONTRACTOR SHALL HAVE ACCESS TO EMAIL AND A PLACE WITHIN THE SCOPE AREA TO USE FOR ONSITE
- THE OWNER SHALL BE RESPONSIBLE FOR MOVING AND SETUP OF SPACES BETWEEN PHASES OF CONSTRUCTION. UNLESS NOTED SPECIFICALLY OTHERWISE AHEAD OF THE BIDS. A MINIMUM OF 30 CALENDAR DAYS SHALL BE ACCOMMODATED WITHIN THE SCHEDULE
- FINAL CLEANING OF THE BUILDING AND SITE SHALL BE BY THE GENERAL CONTRACTOR PRIOR TO OCCUPANCY. CLEANING BETWEEN PHASES SHALL ALSO BE BY THE
- 0. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE FROM FACE STUD.
- 1. CONTRACTOR SHALL COORDINATE THE USE OF THE PREMISES UNDER THE DIRECTION OF THE OWNER. THE G.C. SHALL COORDINATE THE REQUIRED LEVEL OF PROTECTION FOR THE BUILDING'S CONTENTS WITH THE OWNER.
- 2. THE G.C. IS RESPONSIBLE FOR PERMITS, INSPECTIONS, AND ASSOCIATED FEES.
- 3. In the event of any discrepancies in the contract documents, in the absence of
- RECEIVING CLARIFICATION PRIOR TO BIDDING, THE CONTRACTOR SHALL CARRY THE HIGHER COST RELATED TO ANY SUCH DISCREPANCY AND SUBSEQUENTLY SEEK CLARIFICATION AFTER BIDS ARE RECEIVED

# DIVISION 2 - EXISTING CONDITIONS / DEMOLITION

- G.C. SHALL VERIEY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION. CONSTRUCTION, OF FABRICATION. THE G.C. SHALL NOTIFY THE ARCHITECT AND OWNER IN WRITING REGARDING ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONTRACT
- IF NEEDED TO PROTECT ANY ITEMS OF VALUE, CONTRACTOR SHALL PROVIDE APPROPRIATE PROTECTION, BRACING, CONTAINMENT, AND OR DUST PARTITIONS AS NEEDED FOR DEMOLITION UNTIL NEW CONSTRUCTION IS COMPLETE. (ONCE HVAC IS DEMOLISHED THE SPACE WILL NOT BE CONDITIONED UNTIL THE GC RECONNECTS THE HVAC SYSTEM. GC SHALL COORDINATE ALL SUCH DISRUPTIONS WITH THE OWNER.)
- ALL UTILITY ALTERATIONS SHALL BE COORDINATED WITH THE UTILITY PROVIDER AND OWNER SUCH THAT DISRUPTIONS ARE MINIMIZED TO THE GREATEST EXTENT POSSIBLE.
- SOME EVIDENCE OF LEAKS IN THE EXISTING BUILDING ENVELOPE EXIST. ALTHOUGH GENERAL IMPROVEMENT TO EXISTING PEMB METAL PANELS, INSULATION, WINDOWS, ETC. ARE NOT PART OF THE PROJECT SCOPE, UNIESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL SURVEY ALL SLICH CONDITIONS PRIOR TO THE START OF WORK SLICH THAT ANY SUCH ITEMS CAN BE ADDRESSED ON A CASE BY CASE BASIS WITH THE OWNER. ANY SUCH EXISTING PROBLEM AREAS WHICH ARE NOT ADDRESSED SHALL RESULT IN THE OWNER TAKING FULL RESPONSIBILITY FOR SUCH AREAS IMPACTING NEW WORK.
- ALTHOUGH EXTERIOR/BUILDING ENVELOPE SCOPE IS MINIMAL, THE PROJECT SCOPE SHALL STOP AT THE (NEW) BUILDING FACE AND NOT EXTEND INTO THE SURROUNDING SITE UNLESS SUCH WORK IS DIRECTLY REQUIRED TO ACCOMMODATE THE WORK INSIDE THE BUILDING OR AT THE BUILDING FACADE. ALL WORK BEYOND THIS POINT, INCLUDING ALTERATIONS TO HARDSCAPES, LANDSCAPING, SITE SIGNAGE, TANKS, SUCH OFF SWITCHES, RADIO TOWERS, ETC., SHALL BE ASSOCIATED WITH CONCURRENT MAYSVILLE FIRE STATION
- EXISTING PEMB STEEL OVERHANG ON FRONT FACADE OF THE BUILDING SHALL BE MODIFIED TO ALLOW NEW PARAPET ALONG FRONT FACE. ALL TIE IN OF NEW PARAPET WITH EXISTING ROOF SHALL CONFORM TO PEMB STANDARD DETAILS UNLESS SPECIFICALLY NOTED AND APPROVED OTHERWISE BY THE DESIGN TEAM PRIOR TO BID.
- REMOVE EXISTING GIRTS, FRAMING, IN-WALL UTILITIES, FINISHES, ETC. TO THE FULL EXTENT REQUIRED FOR NEW WORK.
- PROVIDE NEW PEMB VINYL / CEILING WRAP AS REQUIRED FOR AREAS WITH EXPOSED CEILINGS. ALL EXPOSED STEEL, CONDUIT, ETC. TO BE PRIMED AND PAINTED WHITE U.N.O. NO EXPOSED WIRES, CABLES, FTC. TO BE PERMITTED IN AREAS WITH EXPOSED CEILINGS (EXISTING ITEMS TO REMAIN MUST BE IN RIGID CONDUIT UNLESS SPECIFICALLY APPROVED
- DISPOSE OF ALL DEBRIS AND WASTE MATERIALS IN APPROPRIATE LANDFILL AT CONTRACTOR'S EXPENSE. RETAIN ALL DISPOSAL RECORDS. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED/REMOVED ITEMS.
- I. ALL FINISHES WITHIN RENOVATED BUILDING TO BE NEW. (NEW PAINT, FLOORING, CEILINGS ETC. COORDINATE EXTENT OF DEMOLITION AND PREP. WITH NEW PLANS AND SPECIFIED

# DIVISION 3 - CONCRETE

- ALL CONCRETE FOUNDATIONS AND FOOTINGS SHALL BE PER STRUCTURAL SHEETS. PROVIDE A VAPOR BARRIER BELOW AS REQUIRED BY CODE.
- ALL CUTTING AND PATCHING OF CONCRETE SLAB ON GRADE SHALL BE IN-KIND AND AS REQUIRED FOR NEW WORK.
- WHERE APPLICABLE, EXTERIOR CONCRETE SHALL HAVE TOOLED JOINTS AT A MAX. 5' SPACING, A BROOM FINISH, AND MEET EXISTING GRADES. PROVIDED WWF WITHIN WALKS SLOPE ALL WALKS IN ADA COMPLIANT MANNER AS REQUIRED TO MEET GRADES.

# DIVISION 4 - MASONRY

- GC SHALL PROVIDE COMPLETE CAVITY WALL SYSTEM INCLUDING TIES, WEEPS, CAVITY DRAINAGE MATERIAL, BRICK, BRICK LINTELS, BUILDING WRAP, AND CONTINUOUS RIGID INSULATION IN A CODE COMPLIANT MANNER.
- GC SHALL HAVE BRICK COLOR, TYPE, AND SIZE CONFIRMED BY OWNER FROM FULL RANGE OF SAMPLES. SEE SPECIFICATION FOR B.O.D. PRODUCTS.

# DIVISION 5 - METALS

ALL REBAR, STRUCTURAL STEEL, CONNECTIONS & FASTENERS SHALL BE PER STRUCTURAL. ALL EXPOSED FERROUS METAL SHALL BE PAINTED/COATED TO INHIBIT RUST. NUMBER OF

COATS , PAINT TYPE, COLOR, ETC. SHALL BE APPROVED BY OWNER

# DIVISION 6 - WOOD & COMPOSITES

- AS APPLICABLE, PROVIDE PRESSURE TREATED DIMENSIONAL LUMBER, SIZES AS INDICATED ON THE PLANS, PER DOC PS 20 GRADING RULES WITH 19 PERCENT MAXIMUM MOISTURE
- ALL STUD FRAMING AND SHEATHING FOR THE EXTERIOR WALLS AND ROOF SHALL COMPLY WITH THE CONSTRUCTION TYPE 5B REQUIREMENTS.
- PROVIDE MISCELLANEOUS WOOD MATERIALS FOR FURRING, BLOCKING, SHIMS, OR HANGERS AS REQUIRED. (INCLUDING BUT NOT LIMITED TO TOILET ACCESSORY LOCATIONS TVS, CASEWORK, WALL MOUNTED DOOR STOPS, ETC. CONFIRM FINAL LOCATIONS WITH OWNER.) PROVIDE SOFTWOOD OR HARDWOOD LUMBER, KILN-DRIED TO MAXIMUM OF 15 PERCENT MOISTURE.
- SEE STRUCTURAL SHEETS FOR ADDITIONAL FRAMING REQUIREMENTS.
- SEE SPECIFICATIONS AND DETAILS/FINISH PLANS FOR ALL CASEWORK/COUNTERTOPS. ALL ITEMS SHALL BE ADA COMPLIANT. FINAL COLORS, PATTERNS, ETC. AS APPROVED BY OWNER/ARCHITECT FROM FULL RANGE OF PRODUCTS. (CASEWORK TO BE P.LAM. UNLESS NOTED OTHERWISE. COUNTERTOPS TO BE QUARTZ UNLESS NOTED OTHERWISE.)

## **DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

- PROVIDE NEW SEALANT AS REQUIRED AT ALL NEW EXTERIOR DOORS, WINDOWS, PENETRATIONS, ETC
- REMOVE/REPLACE EXISTING TRANSLUCENT ROOF PANELS WITH PEMB PANELS TO MATCH EXISTING ADJACENT PANELS. COLOR MATCH AS CLOSELY AS POSSIBLE. PROVIDE INSULATION BELOW SUCH SECTIONS TO MATCH EXISTING ADJACENT INSULATION. FOR NEW SECTIONS OF EXTERIOR WALL WHICH ARE NOT DOORS/WINDOWS, PROVIDE R-19
- ROOF AND RE-ROOF ASSEMBLIES SHALL ALIGN, BE ENERGY CODE COMPLIANT, AND COMPLIANT WITH ANY APPLICABLE FIRE DISTRICT REQUIREMENTS

BATT INSULATION ON EXT. WALLS, WITH 1" CONTINUOUS RIGID INSULATION OVER WALL

## 8. DIVISION 8 - OPENINGS

- GC SHALL COORDINATE DOORS, FRAMES, STOREFRONT. AND GLAZING SUCH THAT THEY MATCH NEARBY EXISTING OWNER BUILDINGS TO THE GREATEST EXTENT POSSIBLE, MEET ENERGY CODE (WHERE APPLICABLE) AND OTHER APPLICABLE CODE, AND ARE APPROVED
- WHERE APPLICABLE, PROVIDE FULLY WELDED HOLLOW METAL FRAMES AT DOOR LOCATIONS AS INDICATED. FRAMES SHALL BE SHOP PRIMED AND FIELD PAINTED AS
- FRAMES SHALL BE 16 GAUGE THICK MINIMUM.
- PROVIDE JAMB ANCHORS AS REQUIRED AT EACH FRAME LOCATION.
- PREP HOLLOW METAL FRAMES TO RECEIVE DOORS AS INDICATED ON PLANS UNLESS NOTED OTHERWISE FOR INTERIOR APPLICATIONS, PROVIDE 1,75" THICK, SOLID CORE WOOD DOORS AS INDICATED ON PLANS. UNLESS MATCHING BALANCE OF EXISTING DOOR (OR OTHER PRODUCTS APPROVED BY THE OWNER), DOORS SHALL BE PREP'ED FOR HARDWARE AND HAVE A FACTORY CLEAR FINISH OVER WOOD VENEER (GRADE AA ROTARY CUT BIRCH UNLESS APPROVED OTHERWISE PRIOR TO PRICING.)
- DOORS SHALL BE PREP'D FOR ADA COMPLIANT HARDWARE (LE LEVEL HANDLES AT ADA HEIGHTS, CLOSERS WITH NOT MORE THAN 5 LB OF CLOSING FORCE, ETC.) PROVIDE AND INSTALL ADA COMPLIANT THRESHOLDS / TRANSITIONS STRIPS AT ALL
- DOORS WHERE FLOORING CHANGES UNLESS APPROVED OTHERWISE PRIOR TO PRICING, PROVIDE FLOOR OR WALL MOUNTED DOOR STOPS BEHIND EACH INTERIOR SINGLE DOOR. INSTALL AS DIRECTED BY
- ARCHITECT/OWNER BASIS-OF-DESIGN STOREFRONT SHALL BE ALUMINUM-FRAMED SYSTEMS BASED ON KAWNEER TRIFAB 451 OR EQUAL
- GLAZING SHALL BE DUAL-PANE 1" INSULATED WITH LOW-E COATING (TEMPERED WHERE REQUIRED BY CODE) EXTERIOR STOREFRONT TO BE THERMALLY BROKEN EXTRUDED ALUMINUM FRAMING SYSTEM
- WITH 1" INSULATED LOW-E GLAZING. BASIS OF DESIGN: KAWNEER TRIFAB 451 (UNO)
- FRAME PROFILE: 2" FACE AND 4-1/2" DEPTH
- COLOR: AS SELECTED BY OWNER FROM FULL RANGE. IF NO COLOR IS IDENTIFIED PRIOR TO PRICING, PROVIDE CLEAR ANODIZED DOORS AND FRAMES
- FRAMING SYSTEM SHALL BE COMPLIANT WITH AIR AND WATER INFILTRATION RATES AS REQUIRED BY APPLICABLE ASTM STANDARDS.
- ALL EXTERIOR DOORS SHALL HAVE WEATHER STRIPPING, ADA THRESHOLDS, ETC. FRAMING SYSTEM SHALL BE DESIGNED TO WITHSTAND ALL APPLICABLE WIND LOADS AND SHALL COMPLY WITH MAXIMUM ALLOWABLE DEFLECTIONS FOR ASTM
- UNLESS NOTED OTHERWISE, CONTRACTOR SHALL PROVIDE SUBMITTALS INCLUDING PRODUCT DATA, COLOR SAMPLES, AND SHOP DRAWINGS TO THE OWNER/DESIGNER FOR REVIEW AND FINAL SELECTION OF COLOR.
- EXTERIOR GLAZING SHALL BE 1" INSULATED UNITS CONSISTING OF THE FOLLOWING
- CONSTRUCTION:
- EXTERIOR LITE SHALL BE 1/4" CLEAR GLASS LOW-E COATING ON SURFACE #2.
- 1/2" AIR SPACE
- INTERIOR LITE SHALL BE 1/4" CLEAR GLASS
- P. GLAZING SHALL BE TEMPERED WHERE SAFETY GLAZING IS REQUIRED BY CODE. LOCATION. TRACK TYPE TO BE NGP SLSS1-SC TOPE MOUNT SLIDING BARN DOOR TRACK
- 10. PROVIDE BARN DOOR TRACK WITH ADA COMPLIANT HARDWARE AND DOOR AT SPECIFIED SYSTEM WITH SOFT CLOSE OR EQUAL AS PER OWNER/ARCHITECT APPROVAL PRIOR TO BID. IF OPENING SIZE REQUIRES TWO BI-PARTING SETS BASED ON DOOR WEIGHT/SIZE, PROVIDI ACCORDINGLY.

# DIVISION 9 - FINISHES

- ALL BASIS OF DESIGN (BOD) FINISHES ARE LISTED HEREIN. ANY SUBSTITUTION REQUESTS SHALL BE SUBMITTED TO THE ARCHTITECT/OWNER FOR APPROVAL PRIOR TO BIDDING AND SHALL MATCH BOTH PERFORMANCE CHARACTERISTICS AND AESTHETIC INTENT (AS JUDGEI BY ARCHITECT/OWNER).
- BOD ITEMS FROM FINISH MEETING (OR EQUALS AS APPROVED PRIOR TO BID):
- LVT: SHAW ABIDE, TAHINI OAK CARPET TILE: MOHAWK - LINEAR EFFECT, 565
- P.LAM.: FORMICA AGED ASH (VERTICAL SURFACES) COUNTERTOPS - QUARTZ - WILSONART - FOSSA FALLS Q4065 (3CM UNO) PAINT: SW NATURAL CHOICE, SW SPORTY BLUE, SW UPWARD (FINAL PAINT PLAN
- TBD FOR EXACT LOCATIONS) ACT: USG, 2X2 RADAR (.55 NRC / 33 CAC) WITH CORRESPONDING GRID. PROVIDE ACT PRODUCT WITH CONCEALED FASTNERS AND FINISHED EDGES FOR
- SWC DOORS CLEAR FINISHED SELECT VENEER (AA-PREMIUM) WITH SOLID WOOD
- IN THE EVENT FINISHES ARE NOTED TO 'MATCH EXISTING', THIS SHALL MEAN COLOR, PATTERN, FINISH TYPE, INSTALLATION METHOD, SHEEN, ETC. SHALL MATCH TO THE GREATEST EXTENT POSSIBLE. ARCHITECT APPROVAL FROM FULL RANGE WITH PHYSICAL SAMPLES SHALL BE REQUIRED UNLESS SPECIFICALLY NOTED OTHERWISE
- WHERE FINISHES/LIGHTING/ETC., ARE REQUIRED TO MEET SPECIFIC STANDARD REQUIREMENTS, THE GC SHALL USE PRODUCTS/FINISHES APPROPRIATE TO SUCH REQUIREMENTS.
- . IF APPLICABLE, REFER TO PLANS FOR FINISH REQUIREMENTS IN EACH SPACE.
- INTERIOR WALL SHEATHING SHALL BE 5/8" GYPSUM BOARD WITH LEVEL 4 FINISH UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE WATER RESISTANT GWB IN ALL WET
- UNLESS SPECIFICALLY NOTED/APPROVED OTHERWISE, ALL WALLS SHALL BE WOOD STUDS AT 16" O.C. PROVIDE SOUND BATTS IN ALL WALLS AND ABOVE ACOUSTIC CEILING TILE UNLESS APPROVED OTHERWISE. CONFIRM THICKNESS AND TYPE WITH OWNER PRIOR TO
- WHERE TILE IS USED, G.C. SHALL PROVIDE CORRESPONDING WATERPROOFING MEMBRANE. MEMBRANE SHALL EXTEND ACROSS THE FLOOR, TERMINATING 8" UP STANDARD LOCATIONS
- AND EXTENDING 24" ABOVE ANY PLUMBING FIXTURES ON WET WALL LOCATIONS. WHERE APPLICABLE, PROVIDE SUITABLE TILE BACKER AS REQUIRED SUCH THAT NEW TILE INSTALLATION MEETS TILE MANUF. INSTALLATION REQUIREMENTS.
- PROVIDE FLOORING MATERIALS AS INDICATED ON DRAWINGS AND/OR AS APPROVED BY OWNER. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES FOR COMPLETE INSTALLATION PER MANUFACTURER'S REQUIREMENTS.
- G.C. SHALL PROVIDE MATERIAL SAMPLES AND PRODUCT DATA FOR ALL ACCESSORIES TO ARCHITECT / OWNER FOR VERIFICATION. ARCHITECT TO SELECT FROM FULL RANGE . FINISH BASIS OF DESIGN PRODUCTS SHALL BE APPROVED BY OWNER. BOD AS FOLLOWS:
- WHERE NOT DIRECTED OTHERWISE, PROVIDED SEALED CONCRETE FLOORS. PRIME AND PAINT ALL WALLS AND GYP BD. BULKHEADS/CEILINGS. PROVIDE A MINIMUM OF TWO COATS OF FINISH PAINT (COLOR AND SHEEN AS SELECTED BY OWNER.) PAINT TYPE SUITABLE FOR SPECIFIC APPLICATION. (H.M. DOORS AND

RESTROOMS SHALL HAVE PAINT AND SHEEN SUITABLE FOR COMMERCIAL RESTROOM

LOCATIONS. (IF NO TILE/WIPABLE SURFACE IS LOCATED NEAR FLUSHING PLUMBING

PROVIDE WOOD RISERS & WOOD STAIR TREAD WITH SLIP RESISTANT STRIPS/NOSINGS

- FRAME S TO HAVE 2 FINISHED COATS OF SEMI-GLOSS U.N.O.) PROVIDE LOW VOC CONTENT PRIMER & PAINT FROM SHERWIN WILLIAMS U.N.O. COLORS: AS SHOWN IN SCHEDULE AND/OR AS SELECTED BY OWNER/ARCHITECT FROM FULL RANGE.
- FIXTURES, PROVIDE EPOXY PAINT TO COMPLY WITH CODE. CEILINGS - IN AREAS OF THE RENOVATION SHOWING ACT, UNLESS NOTED/APPROVED OTHERWISE, PROVIDE ARMSTRONG 2'X2' ACT INCLUDING 15/16" GRID. SUPPORT PER manufacturers recommended details and applicable codes. Caulk entire EDGE TRIM TO ADJACENT WALL. PROVIDE MINIMUM 12 GAUGE, GALVANIZED HANGER WIRE FOR INSTALLATION OF SUSPENSION SYSTEM, CONTRACTOR SHALL PROVIDE ATTIC STOCK OF PANELS EQUAL TO 2% OF TOTAL FOR EACH TYPE USED.

USING DETAILS/MATERIALS AS APPROVED BY THE OWNER/ARCHITECT. USE SAME UL DETAILING USED ON HARD GYP, BD, CEILINGS ON UNDERSIDE OF STAIRS ALL EXTERIOR FINISHES/MATERIALS TO BE COMPATIBLE WITH TOWN REQUIREMENTS, MATCH EXISTING (I.E. IF EXISTING MASONRY IS PAINTED, NEW MASONRY SHALL BE

PAINTED TO MATCH), AND AS APPROVED BY THE OWNER.

## **DIVISION 10 - SPECIALTIES**

- PROVIDE ADA COMPLIANT ROOM SIGNS AT RESTROOMS (TO MATCH OWNER'S STANDARDS) MOUNT AT ADA HEIGHT 3" FROM EDGE OF SIGN TO EDGE OF FRAME ON STRIKE SIDE OF DOOR OR AS APPROVED OTHERWISE. VERTICAL MOUNTING AS REQUIRED
- PROVIDE PIN MOUNTED CAST ALUMINUM BUILDING SIGNAGE WITH 18" TALL LETTERS (UNLESS APPROVED OTHERWISE PRIOR TO BIDDING. ESTIMATE BASED ON BOLD ARIEL FONT AND LETTER COUNT SHOWN. ADJUSTMENTS TO FINAL FONT, TEXT, ETC. SHALL BE MADE WITH OWNER ARCHITECT APPROVAL.)
- PROVIDE TOILET ROOM ACCESSORIES INCLUDING BLOCKING IN WALL AS REQUIRED, AS
- GRAB BARS: 1-1/2" DIAMETER STAINLESS STEEL. CONFIGURATION AS SHOWN ON DRAWINGS AND TO MEET ALL ACCESSIBILITY REQUIREMENTS. TOILET PAPER HOLDER: SURFACE MOUNTED SINGLE ROLL STAINLESS STEEL (UNO)
- MIRRORS: 18" X 36" WITH BOTTOM AT OF REFLECTIVE SURFACE AT 40" A.F.F. (UNO) SOAP DISPENSER: COORDINATE WITH OWNER'S STANDARDS
- PAPER TOWEL DISPENSER: COORDINATE WITH OWNER. SHALL NOT PROTRUDE MORE THAN 4" FROM WALL (ADA) UNLESS WASTE RECEPTACLE IS COORDINATED WASTE/TRASH RECEPTACLES: BY OWNER UNLESS DIRECTED OTHERWISH
- NEW LOUVER BLINDS OF APPROPRIATE SIZING SHALL BE FURNISHED THROUGHOUT UNLESS NOTED OTHERWISE. ARCHITECT TO APPROVE COLOR AND TYPE FROM FULL RANGE.

PROVIDE COMMERCIAL GRADE MOTORIZED ROLLER SHADES FOR BOARD ROOM FROM

- HUNTER DOUGLAS ARCHITECTURAL OR OWNER/ARCHITECT APPROVED EQUAL AT FORMER GARAGE DOOR OPENINGS. PROVIDE THREE SHADES (ONE ABOVE DOOR, AND ONE EACH FOR THE BALANCE OF SPACES, SIZED ACCORDINGLY. FINAL FINISH AND FABRIC AS APPROVED (OWNER/ARCHITECT) FROM FULL RANGE OF OPTIONS. PROVIDE FEC (FIRE EXTINGUISHER CABINETS) OR FE (HOOK/SHELF MOUNTED FIRE
- EXTINGUISHERS) OF APPROPRIATE SIZE AND TYPE AS REQUIRED BY CODE AND/ OR THE LOCAL FIRE MARSHAL. FINAL LOCATIONS TO BE APPROVED BY OWNER. ALL SHALL BE ADA
- G.C. SHALL CONFIRM LOCATIONS OF ALL TV AND/OR OTHER ITEMS REQUIRING BLOCKING. POWER, ETC., WITH OWNER, IT IS ASSUMED THAT ALL SUCH ITEMS WILL BE OWNER FURNISHED, OWNER INSTALLED, BUT THAT COORDINATION FOR BLOCKING BY GC MAY BE
- PROVIDE PRE-ENGINEERED STRUCTURALLY WELDED ALUMINUM FRAMES WITH KYNAR FINISH AND KYNAR FINISHED STANDING SEAM ROOF PANELS AS SHOWN ON ELEVATIONS. COLOR AS SELECTED BY OWNER/ARCHITECT FROM FULL RANGE.

## DIVISION 11 - EQUIPMENT

- ANY EQUIPMENT WHICH IS RELATED TO THE OWNER BEING OPERATIONAL THROUGHOUT CONSTRUCTION SHALL BE HIGHLIGHTED AND DISCUSSED AT THE PRE CONSTRUCTION
- AT SUCH MEETING, THE BIDDERS SHALL CONFIRM ALL REQUIREMENTS OF OWNER FURNISHED, OWNER INSTALLED EQUIPMENT AND NOTIFY THE ARCHITECT OF ANY REQUIRED CHANGES TO THE CONTRACT DOCUMENTS PRIOR TO BIDDING
- CONTRACTOR SHALL VERIFY THE FINAL CONNECTION REQUIREMENTS FOR ITEMS THAT ARE TO BE SUPPLIED AND INSTALLED BY OWNER. LICENSED CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR EQUIPMENT AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
- GC SHALL BE RESPONSIBLE FOR PROVIDING BLOCKING AS REQUIRED FOR ALL OWNER FURNISHED MATERIALS AND COORDINATING FINAL LOCATIONS WITH OWNER/ARCHTIECT

OWNER SHALL FURNISH TVS / MONITORS AND MATCHING MOUNTING BRACKETS FOR

- ANY SIGNAGE / GRAPHICS NOT EXPLICITLY IN THE CONTRACT SHALL BE OWNER FURNISHED
- GC SHALL RELOCATE EXISTING NIGHT DROP BOX TO FINAL LOCATION AS SPECIFIED BY OWNER AND APPROVED BY OWNER/ARCHIJECT
- ALL SECURITY SYSTEMS, CAMERAS, CONTROLLED ACCESS LOCKS, INTERCOM/A/V, IT SYSTEMS & RACKS, ETC. SHALL BE OWNER FURNISH (UNLESS SPECIFIED OTHERWISE HEREIN), WITH PATHWAYS AS INCLUDED IN THE CONTRACT DOCUMENTS. ALL FINAL LOCATIONS AND DETAILS OF SUCH SYSTEM SHALL BE APPROVED IN CONJUNCTION WITH THE OWNER AT THE TIME OF SUBMITTALS.

# **DIVISION 12 - FURNISHINGS**

THE OWNER SHALL BE RESPONSIBLE FOR MOVING, PROCURING, ETC. ANY AND ALL FURNISHINGS ASSOCIATED WITH THE PROJECT WITHOUT INVOLVEMENT BY THE CONTRACTOR AND OR ARCHITECT UNLESS PRIOR WRITTEN ARRANGEMENTS EXIST.

# DIVISION 13 - SPECIAL CONSTRUCTION (NOT APPLICABLE.)

# DIVISION 14 - CONVEYING EQUIPMENT (NOT APPLICABLE.)

## DIVISIONS 22, 23, & 26 - PLUMBING, MECHANICAL, & ELECTRICAL

- REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL (PME) SHEETS FOR ADDITIONAL NOTES, REQUIREMENTS, AND SPECIFICATIONS FOR THOSE SYSTEMS. SHOULD DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND PME SHEETS, OR OTHERWISE, THE G.C SHALL PRICE THE MOST EXPENSIVE OPTION AND CONTACT THE OWNER AND ARCHITECT FOR FURTHER CLARIFICATION.
- SYSTEMS/ASSEMBLIES INDICATED ON PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR TO PROVIDE ALL NECESSARY HANGERS, FASTENERS, ETC TO PROVIDE A COMPLETE & WORKING ASSEMBLY.
- SEE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL OTHER RELATED INFORMATION.
- UNLESS NOTED AND APPROVED OTHERWISE, ALL EXISTING SWITCHES DEVICES, COVER PLATES, ETC. TO REMAIN SHALL BE REPLACED IN-KIND WITH COLORS TO MATCH NEW ITEMS. EXISTING SYSTEMS TO REMAIN SHALL BE EVALUATED BY THE APPROPRIATELY LICENSED PARTIES. ANY CODE DEFICIENCIES OR OTHER CAUSES FOR CONCERN SHALL BE IMMEDIATELY BROUGHT TO THE OWNER AND DESIGN TEAM'S ATTENTION SUCH THAT ITEMS
- PHOTO DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION SHALL BE THE GC'S RESPONSIBILITY. UNLESS PROOF IS FURNISHED, AND DAMAGE / PROBLEMS THAT ARISE DURING CONSTRUCTION SHALL BE DEEMED TO BE THE CONTRACTOR'S RESPONSIBILITY TO CORRECT IN-KIND UNLESS PROOF OF PRE-EXISTING CONDITIONS CAN BE SUPPLIED. (THIS APPLIES TO ALL ASPECTS OF THE PROJECT, TO ONLY ITEMS IN THIS DIVISION.)

## DIVISIONS 31, 32, & 33 - EARTHWORK, EXTERIOR IMPROVEMENTS, & UTILITIES

NO CIVIL/SITE/LANDSCAPE WORK IS INCLUDED HEREIN. WHERE APPLICABLE, ALL NEW SITE WALLS, CURB CUTS, ETC. SHALL BE ADA COMPLIANT

CAN BE ADDRESS ON A CASE BY CASE BASIS.

WITH A NON-SLIP BROOM FINISH AND TOOLED JOINTS. ALL EXTERIOR SITE LIGHTING / EGRESS LIGHTING SHALL BE FROM BUILDINGS U.N.O.

OWNER SHALL APPROVE ALL FIXTURES AND RECEPTACLE LOCATIONS UNLESS NOTED

# Town of Maysville, NC Municipal Building Renovations

## **MEP ENGINEER:** ARCHITECT:

## INTREPID Architecture, PA

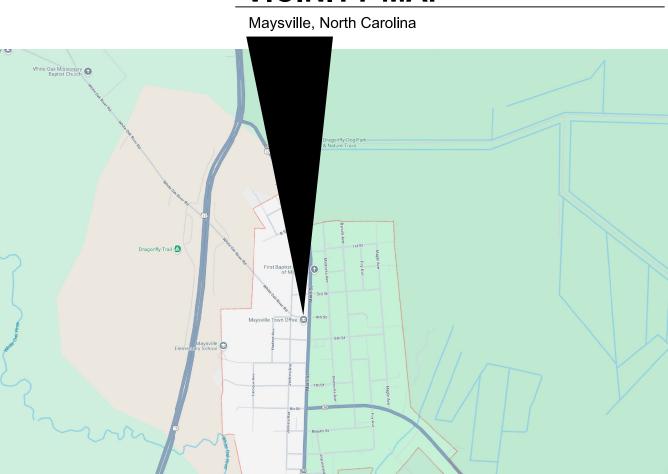
114 E. Third Street Greenville, North Carolina 27858 Phone: 252-270-5330 Contact: Albi McLawhorn, AIA Email: AlbiM@IntrepidArchitecture.com

EnTech Engineering, PA 1071 N. Berkeley Blvd Phone: 919.778.9064 Contact: Derrick Ham, P.E. Email: dHam@entech-pme.com

# **STRUCTURAL:**

1 Commerce Square, Suite 202 Washington, NC 27889 Phone: 252-321-6027 Contact: Mark Roy, P.E. Email: mark.roy@rpaengineering.com

# **VICINITY MAP**



# **LOCATION MAP**

404 Main Street, Maysville, NC 28555



I	NDEX OF DRAWINGS		
SHEET	SHEET NAME		
T1-1	Title Sheet, Maps, Abbreviations, & Legends	PD1-1	Plumbing Demolition Plan
T1-2	Building Code Summary	P1-1	Plumbing Plan
T1-3	Life Safety Plans / Phasing Diagram	P2-1	Plumbing Details
T1-4	UL Details	P3-1	Plumbing Schedules
		MD1-1	Mechanical Demolition Plan
A1-1	Floor Plans	M1-1	Mechanical Plan
A2-1	Exterior Elevations	M2-1	Mechanical Details
		M3-1	Mechanical Schedules
A4-1	Interior Elevations & Enlarged Plans	M3-2	Mechanical Schedules & Notes
A4-2	Interior Elevations & Enlarged Plans		
A5-1	Reflected Ceiling Plan	ED1-1	Lighting & Power Demolition Plan
		E1-1	Electrical Plan
		E2-1	Electrical Details
A8-1	Door & Window Schedules	E2-2	Electrical Details
		E3-1	Electrical Panels & Schedules
		E3-2	Electrical Panels & Schedules
		E4-1	Electrical Notes

# **ARCHITECTURAL ABBREVIATIONS**

BLOCKING CONCRETE

FINISHED FLOOR ELEVATION GRAB BAR GYPSUM BOARD HARDWARE

HIGH POINT HEATING, VENTILATION, AIR CONDITIONING INSULATION

LOW POINT MECHANICAL MASONRY OPENING MOUNTED NOT IN CONTRACT

PLASTIC LAMINATE REFRIGERATOR

> SPECIFICATIONS STAINLESS STEEL STRUCTURE/STRUCTURAL SOLID WOOD CORE TOP CURB TRANSPARENT FINISH TOP GRATE

> > TOP OF JOIST

TOP OF PLATE

RAIL & STILE WOOD

TOP OF STEEL TRANSITION STRIF UNLESS NOTED OTHERWISE VERIFY IN FIELD WOOD SOLID CORE WELDED WIRE FABRIC

> **Construction Documents** REVISIONS

**UNLESS NOTED OTHERWISE** THESE ABBREVIATIONS AND SYMBOLS SHALL BE TYPICAL FOR THIS SET OF CONTRACT DOCUMENTS.

ACOUSTICAL PANEL CEILING ABOVE FINISHED FLOOR ATTENUATION BITUMINOUS BOTTOM OF PLATE CORNER GUARD

CEILING CONCRETE MASONRY UNIT CERAMIC TILE ELECTRICAL CONTRACTOR **ELECTRICAL** 

EDGE OF SLAB EQUIPMENT CONTRACTOR EXPOSED EXPANSION JOINT FLOOR DRAIN FOUNDATION

FIRE EXTINGUISHER FIRE EXTINGUISHER CABINE FIRERGLASS REINFORCED POLYESTER

HOLLOW METAL

MECHANICAL CONTRACTOR

PLUMBING CONTRACTOR

THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN. THE PROPERTY OF THE ARCHITECT. THEY HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT. ©-INTREPID Architecture 2025 SHEET NAME:

LOCATION PLAN, ABBREVIATIONS, NOTES, SHEET INDEX

ISSUE DATE: 4/30/2025 PROJECT #: **24008** 

DRAWN BY: **ANM** 

BUILDING HEIGHT IN STORIES (Table 504.4)

<sup>1</sup> Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

Mailing Address: 2104 CROOKED CREEK RD.

ARCHITE

RD STREET

LE, NC 27858

whorn@gmail.com
0.5330

114 E. THIRI GREENVILLE albimclawh

Town of MaySville funicipal Building Renovati 404 Main St.



SHEET NAME:

APPENDIX B - BUILDING CODE SUMMARY

PHASE:

Construction Documents

REVISIONS --

ISSUE DATE: 4/30/2025
PROJECT #: 24008
DRAWN BY: ANM

SHEET NUMBER

T1-2

LIFE SAFETY PLANS

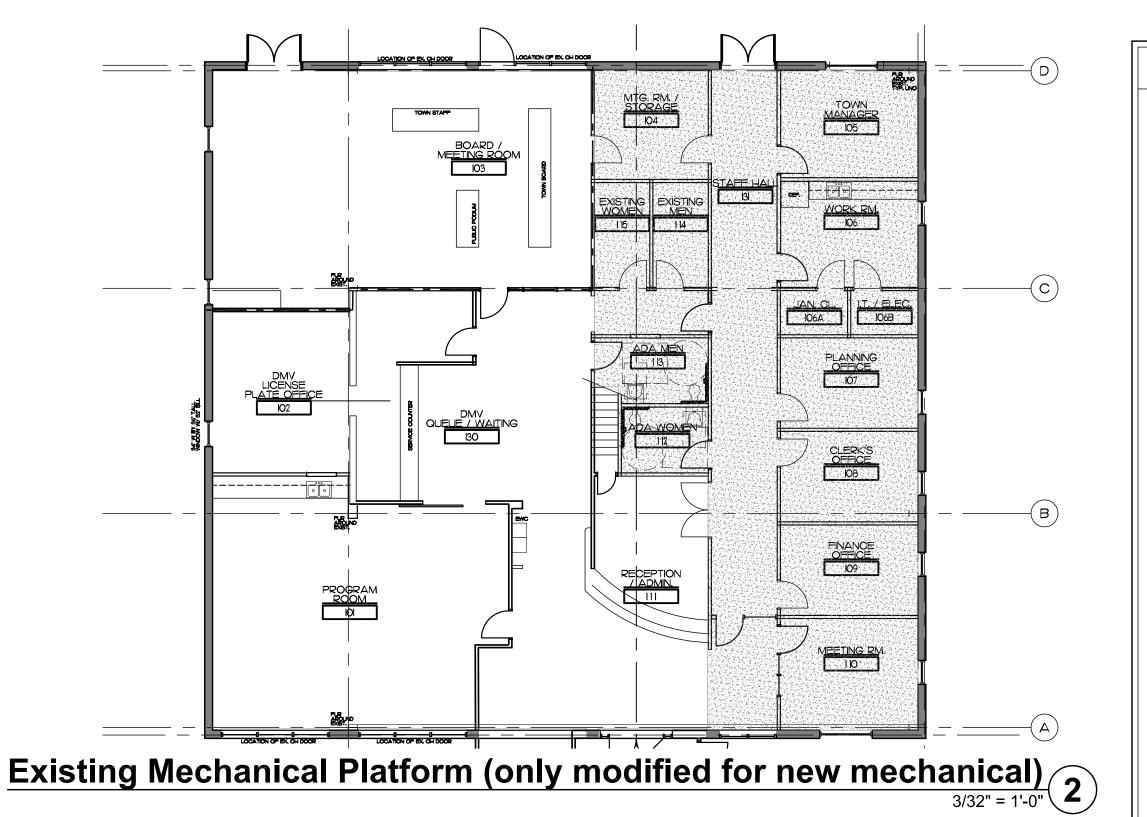
**Construction Documents** 

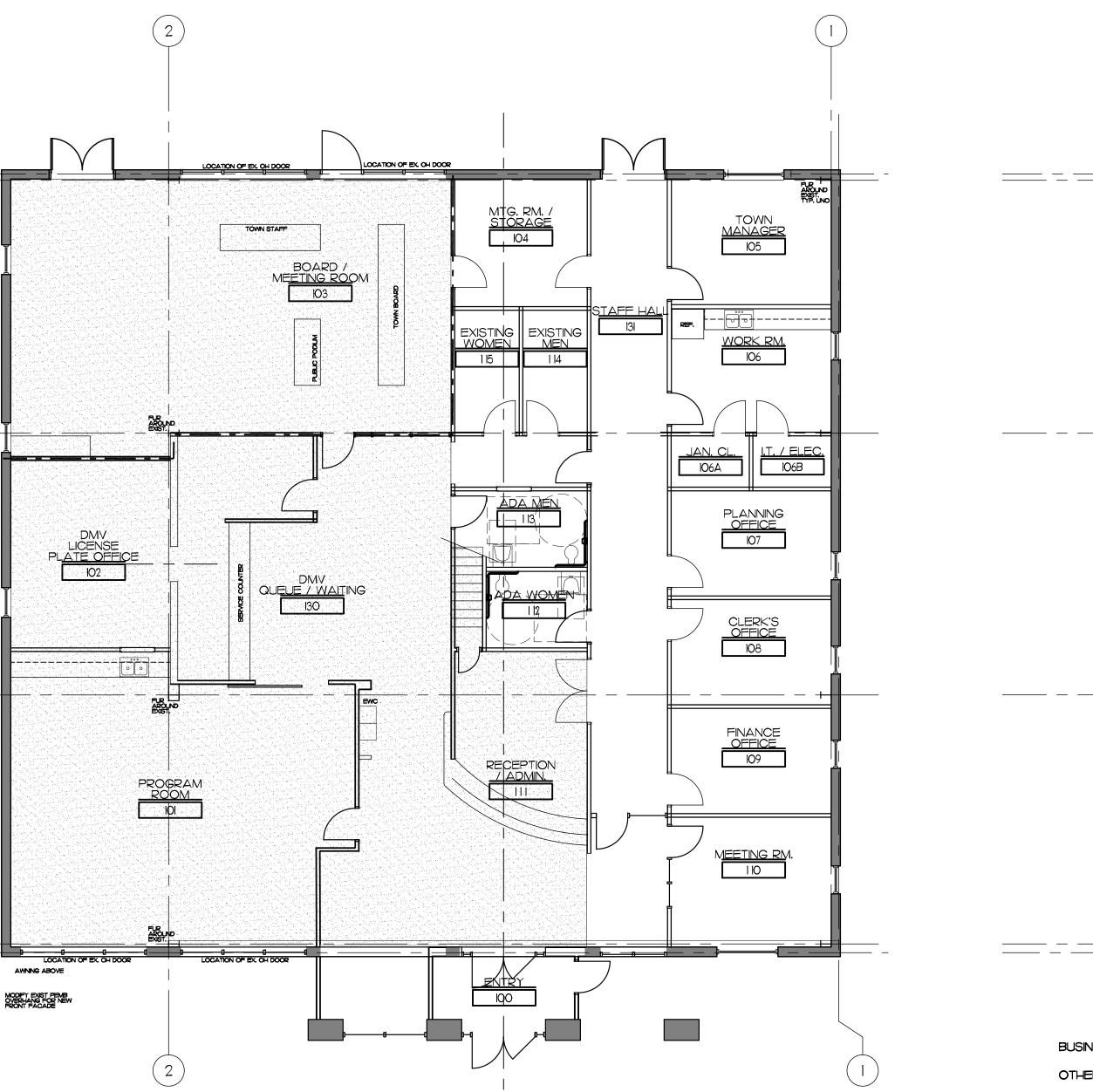
REVISIONS

ISSUE DATE: 4/30/2025 PROJECT #: **24008** 

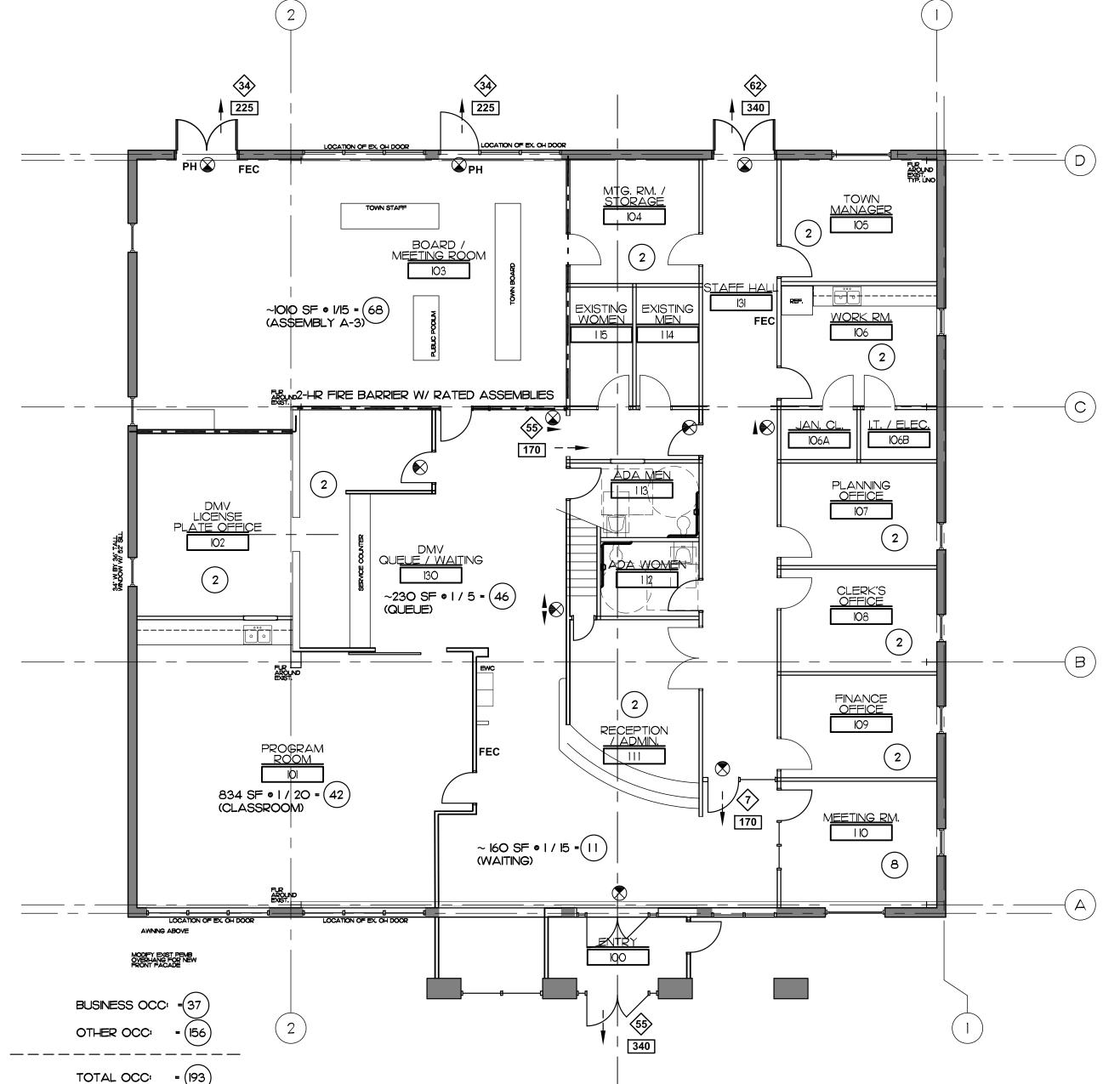
SHEET NUMBER

DRAWN BY: ANM





Life Safety Plan - Phasing Diagram
1/8" = 1'-0"
2



Life Safety Plan - Ground Floor

1/8" = 1'-0"

1

# **OCCUPANCY CALCULATION** & CODE NARRATIVE

F.E.C. FIRE EXTINGUISHER CABINET

(OR F.E. FIRE EXTINGUISHER W/

HOOK ONLY) PROVIDE TYPE ABC EXTINGUISHERS IN CABINETS MOUNTED NOT HIGHER THAN 5'-4"

A.F.F. TO HANDLE OF CABINET AND/OR EXTINGUISHER. MINIMUM OF 3 LOCATIONS. J.L. INDUSTRIES 24X9.5X4.75 U.N.O. ALL SHALL BE ADA COMPLIANT.

PRIOR TO CONSTRUCTION, MAYSVILLE WILL VACATE THE PHASE I AREA (INCLUDING THE MEZZANINE AND AREAS ON THE FRONT SIZE OF THE BUILDING. THIS WILL ALLOW THESE AREAS TO BE AVAILABLE FOR PHASE I CONSTRUCTION (SEE DIAGRAM 2 ON THIS SHEET). WHILE UTILITIES, ETC. THAT SERVICE THE PHASE I WORK AREAS MAY REQUIRE TIE-INS, INTERRUPTIONS, ETC., ALL SUCH ITEMS SHALL BE COORDINATED IN ADVANCE PER THE SPECIFICATION SUCH THAT MAYSVILLE CAN REMAIN OPERATIONAL WITHOUT MODIFICATION TO NORMAL BUSINESS OPERATIONS.

IT IS ANTICIPATED THAT THE PHASE I CONSTRUCTION WILL REQUIRE THE TOWN OF MAYSVILLE TO ACCESS THE OFFICE/ADMINISTRATIVE SIDE OF THE BUILDING THROUGH THE EXISTING REAR ENTRY (INTO THE EXISTING BOARD ROOM), A SECONDARY MEANS OF EGRESS FOR SUCH AREAS WILL NEED TO BE COORDINATED WITH CONSTRUCTION.

DURING PHASE 2 WORK, THE EXISTING OFFICE/ADMINISTRATIVE SIDE OF THE BUILDING WILL RELOCATE INTO THE AREAS RENOVATED BY PHASE I. SOME OF THESE RELOCATIONS WILL BE TO THE NEW 'PERMANENT' LOCATIONS (BOARD ROOM, DMV, MAIN RECEPTION AREA), WHILE OTHERS SUCH AS CRITICAL OFFICE FUNCTIONS WILL RELOCATE ON A TEMPORARY BASIS UNTIL PHASE 2 IS COMPLETE.

THROUGHOUT THE DURATION OF THE PROJECT, CODE COMPLIANT EGRESS MUST BE MAINTAINED. GC SHALL FURNISH A LOGISTICS PLAN WITH THE SOV AND PROJECT SCHEDULE.

THE EXISTING GENERATOR WILL BE DISCONNECTED FROM PHASE I AREAS SUCH THAT PHASE I WORK CAN OCCUR. THE GENERATOR SHALL SERVE THE BUILDING IN SOME CAPACITY (TO BE APPROVED BY OWNER) UNTIL A NEW FEED TO THE NEW FIRE STATION GENERATOR CAN BE INSTALLED.

THE MUNICIPAL BUILDING WILL HOUSE A NUMBER OF DIFFERENT FUNCTIONS, WITH THE EXCEPTION OF THE BOARD ROOM, THE BALANCE OF SPACES ARE ALL CLASSIFIED AS 'B-USE' SPACES SUPPORTING THE MUNICIPAL FUNCTIONS OF THE BUILDING.

THE A-3 USE BOARD ROOM IS SEPARATED FROM THE BALANCE OF THE BUILDING WITH A NEW 2-HR FIRE BARRIER.

ALL REQUIRED EGRESS FROM THIS SPACE DISCHARGES DIRECTLY TO THE EXTERIOR, THEREBY ALLOWING THE BALANCE OF THE BUILDING TO AVOID NEEDING RATED CORRIDORS.

THE EXISTING MEZZANINE SPACE WILL CONTINUE TO SERVE AS A 'MECHANICAL MEZZANINE', WHEREBY HEAD CLEARANCES, STRUCTURAL LOADS, ETC. ARE REMAINING

WHILE SOME OF THE EXISTING PEMB GIRTS ARE BEING REMOVED TO ACCOMMODATE THE BOARD ROOM, THE EXISTING CABLE BRACE BAY HAS NOT BEEN ALTERED.

IT IS THE INTENT THAT ANY NEW EXTERIOR CONSTRUCTION WILL MEET CURRENT CODES, AND THAT MODIFICATIONS TO EXISTING CONSTRUCTION WILL NOT RENDER SUCH SPACES STRUCTURALLY DIFFERENT THAN THEIR EXISTING CONDITIONS.

INFILL OF EXISTING TRUCK BAY OPENINGS SHALL CONFORM TO CURRENT ENERGY CODES.

ALL WORK MORE THAN FIVE FEET BEYOND THE BUILDING FACE SHALL BE INCLUDED IN THE CONCURRENT NEW FIRE STATION PROJECT. SHOULD THIS PROJECT'S SCOPE REQUIRE UTILITY ALTERATIONS BE REQUIRED.

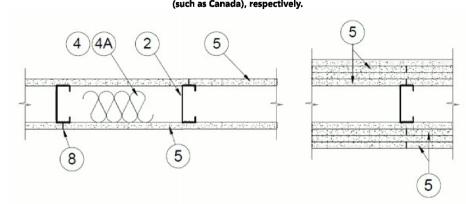
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design Criteria and Allowable Variances

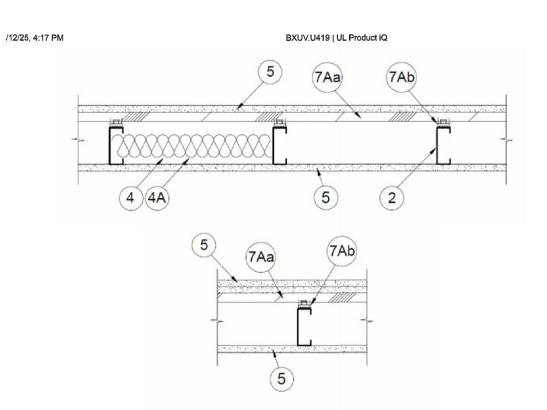
Design No. **U419** 

May 09, 2025

## Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J) \* Indicates such products shall bear the UL or cUL Certification Mark for Jurisdictions employing the UL or cUL Certification



tps://ig.ulprospector.com/en/profile?e=14979



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosionprotected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in.

1A. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. CEMCO, LLC — Viper25™ Track CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in, OC max CEMCO, LLC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1C. Framing Members\* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in, OC, max. **ALLSTEEL & GYPSUM PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

ttps://ig.ulprospector.com/en/profile?e=14979

5/12/25, 4:17 PM BXUV.U419 I UL Product iQ QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20 SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20 **TELLING INDUSTRIES L L C** — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners

1E. Framing Members\* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. **CLARKDIETRICH BUILDING SYSTEMS** — CD ProTRAK

DMFCWBS L L C — ProTRAK MBA METAL FRAMING — ProTRAK RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProTRAM

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members\* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max. STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

11. Framing Members\* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in.

1J. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

https://ig.ulprospector.com/en/profile?e=14979

5/12/25, 4:17 PM BXUV.U419 | UL Product iC 1K. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. Framing Members\* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 20, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. Framing Members\* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. OEG BUILDING MATERIALS — OEG Track

10. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CEMCO, LLC — Viper X Track

1P. Framing Members\* — Floor and Ceiling Runner — (Not Shown — Alternate to Item 1) — For use with Item 2R, channel shaped runners preequipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

1Q. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2S, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min, 20 EO/22 mils, (min, 0,0221 in, thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in, OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

1R. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2T, proprietary channel shaped runners ,min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max

IRONLINE METALS LLC — Bantam Track.

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. Framing Members\* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in, gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only, https://iq.ulprospector.com/en/profile?e=14979

BXUV.U419 | UL Product IQ

CEMCO, LLC — Viper25™ CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CEMCO, LLC — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC - Viper20<sup>th</sup>

2D. Framing Members\* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. **ALLSTEEL & GYPSUM PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

**STEEL CONSTRUCTION SYSTEMS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20 UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min, 0.015 in, (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD MBA METAL FRAMING — ProSTUD RAM SALES L L C - Ram ProSTUD STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights. SUPER STUD BUILDING PRODUCTS — The Edge

2G. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height. STUDCO BUILDING SYSTEMS — CROCSTUD

ps://iq.ulprospector.com/en/profile?e=14979

12/25, 4:17 PM

BXUV.U419 | UL Product iQ 2H. Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

21. Framing Members\* — Steel Studs —

TELLING INDUSTRIES L L C — TRUE-STUD™

2J. Framing Members\* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. EB METAL INC — NITROSTUD

2L. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. OLMAR SUPPLY INC - PRIMESTUD

2M. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. Framing Members\*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height RESCUE METAL FRAMING, L L C — AlphaSTUD

20. Framing Members\* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. Framing Members\* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. OEG BUILDING MATERIALS — OEG Stud

2Q. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CEMCO, LLC — Viper X

2R. Framing Members\* — Steel Studs — (Not Shown — Alternate to Item 2. For use with Item 1P) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1P). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

tps://ig.ulprospector.com/en/profile?e=14979

HYPERFRAME INC— Hyperstuc

12/25, 4:17 PM

BXUV.U419 I UL Product iQ

2S. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galyanized steel, Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

2T. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1R, proprietary channel shaped steelstuds, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. IRONLINE METALS LLC — Bantam Stud.

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in, thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108. manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets\* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets\* — (Optional – as an alternate to item 4) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4B. Fiber, Sprayed\* — (Optional – as an alternate for items 4 or 4A, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. Foamed Plastic\* — (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite

Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. Foamed Plastic\* — (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LWP,

from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be

4E. Foamed Plastic\* — (As an alternate to Item 4 for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thicknes tps://ig.ulprospector.com/en/profile?e=14979 7/15

BXUV.U419 I UL Product iQ

BASF CORP - Walltite® v.5

5. Gypsum Board\* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC

When Item 7B, Steel Framing Members\*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board\* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6. CGC INC — Type SHX.

tps://iq.ulprospector.com/en/profile?e=14979

RAY-BAR ENGINEERING CORP — Type RB-LBG

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

12/25. 4:17 PM BXUV.U419 | UL Product iQ USG MEXICO S A DE C V — Type SHX.

5B. Gypsum Board\* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in, thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in, or 3/4 in, may be used as alternate to all 5/8 in, or 3/4 in, shown in Item 5. Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in, OC at perimeter and 12 in, OC in the field, To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

5C. Gypsum Board\* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in, OC starting 6 in, from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in, long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory. CGC INC — Type SCX, ULIX.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX. USG BORAL DRYWALL SFZ LLC — Type SCX USG MEXICO S A DE C V — Type SCX

5D. Gypsum Board\* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in, or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. Gypsum Board\* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC

tps://iq.ulprospector.com/en/profile?e=14979

BXUV.U419 I UL Product iQ

along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in. THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO -- 5/8 in. thick Type SCX, SGX, ULIX USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board\* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over study and staggered one stud cavity on opposite sides of study. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as Gynsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
•	1-5/8	2 layers, 1/2 in. thick	Optional
!	1-5/8	2 layers, 5/8 in. thick	Optional
	1-5/8	3 layers, 1/2 in. thick	Optional
1	1-5/8	3 layers, 5/8 in. thick	Optional
	1-5/8	4 layers, 5/8 in. thick	Optional
	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO - 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, IP-X4, IPC-AR, IPC-AR ULIX: 3/4 in, thick Types IP-X3 or ULTRACODE USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C: 5/8 in. Types C. SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick

5H. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

ps://ig.ulprospector.com/en/profile?e=14979

/12/25, 4:17 PM BXUV.U419 I UL Product iQ

51. Gypsum Board\* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5. CGC INC — Type ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, ULX USG MEXICO S A DE C V — Type ULX

5J. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field, Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. Gypsum Board\* — (As an alternate to Item 5 when Foam Plastic insulation (Items 4C or 4D) is used) — Any 5/8 in, thick, 4 ft, wide, Gypsum

Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in, long Type S steel screws spaced 8 in, OC at perimeter and in the field. For 2 layer assemblies outer laver will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

5L. Gypsum Board\* — (As an alternate to Item 5 when Foam Plastic insulation (Items 4E) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Additional layer of Gypsum Board is required to what is shown in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. For 2 layer assemblies inner layer attached to studs with 1-1/4 in. long Type S steel screws spaced 8 in, OC, outer layer will be attached to studs over inner layer with the 1-7/8 in, long steel screws spaced 8 in, OC. For 3 layer assemblies inner layers installed as described in the 2 layer system above, third layer attached to studs over inner layers with 2-5/8 in. long steel screws spaced 8 in. OC.

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Single layer system with Type ULIX: 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in, long for 1/2 in, thick panels or 3 in, long for 5/8 in, thick panels, spaced 12 in, OC. Screws offset min 6 in, from layer below.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Items 5B, 5E, 5H, or 5J.

7A. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7,

furring channels and Steel Framing Members as described below:

BXUV.U419 | UL Product iQ

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

12/25, 4:17 PM

b. Steel Framing Members\* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. Framing Members\* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. KINETICS NOISE CONTROL INC — Type Isomax

7C. Framing Members\* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ca) to studs (Item 2), Clips spaced max, 48 in, OC, GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP

7D. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel

wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in, coarse drywall screw with 1 in, diam washer through the center hole. Furring channels are friction fitted into clips STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

tps://ig.ulprospector.com/en/profile?e=14979

BXUV.U419 | UL Product iQ b. Steel Framing Members\* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip

7F. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. Steel Framing Members\* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, urring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

UNITED STATES GYPSUM CO — Type AS

7H. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below

a, Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in, wide by 7/8 in, deep, spaced 24 in, OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in, and secured together with two self-tapping #6 framing screws, min. 7/16 in, long at the midpoint of the overlap, with one screw on each flange of the channel, Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. Steel Framing Members\* —Used to attach furring channels (Item 7Ha) to studs. Clips spaced 48 in. OC. staggered on adjacent furring

channels and secured to studs with one No. 8 x 2-1/2 in. screw and washer through the center hole. Furring channels are friction fitted into

ISOTECH INDUSTRIES INC. — Type ISOSTUD 8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of

outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint

compound may be omitted when gypsum panels are supplied with a square edge. 9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties

attached to each stud with steel screws, not more than each sixth course of brick. 10. Caulking and Sealants\* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max

thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type

S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C", Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints. 11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one

strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. 12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in, diam by max 0.125 in, thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in, by 1-1/4 in, by max 0.125 in, thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of

the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten

12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. Lead Batten Strips — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on

> UL DETAILS - U419 (2-HR) Reprinted from Product iQ with permission from UL Solutions \

al

PROJECT #: **24008** 

DRAWN BY: ANM

THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THEY HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT. ©-INTREPID Architecture 2025

**Construction Documents** 

**REVISIONS** 

ISSUE DATE: 4/30/2025

SHEET NAME:

**UL DETAILS** 



THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATION ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAINS IN THE PROPERTY OF THE ARCHITECT. THEY HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT.

SHEET NAME:

FLOOR PLAN

PHASE:

Demolition Floor Plan
3/16" = 1'-0"

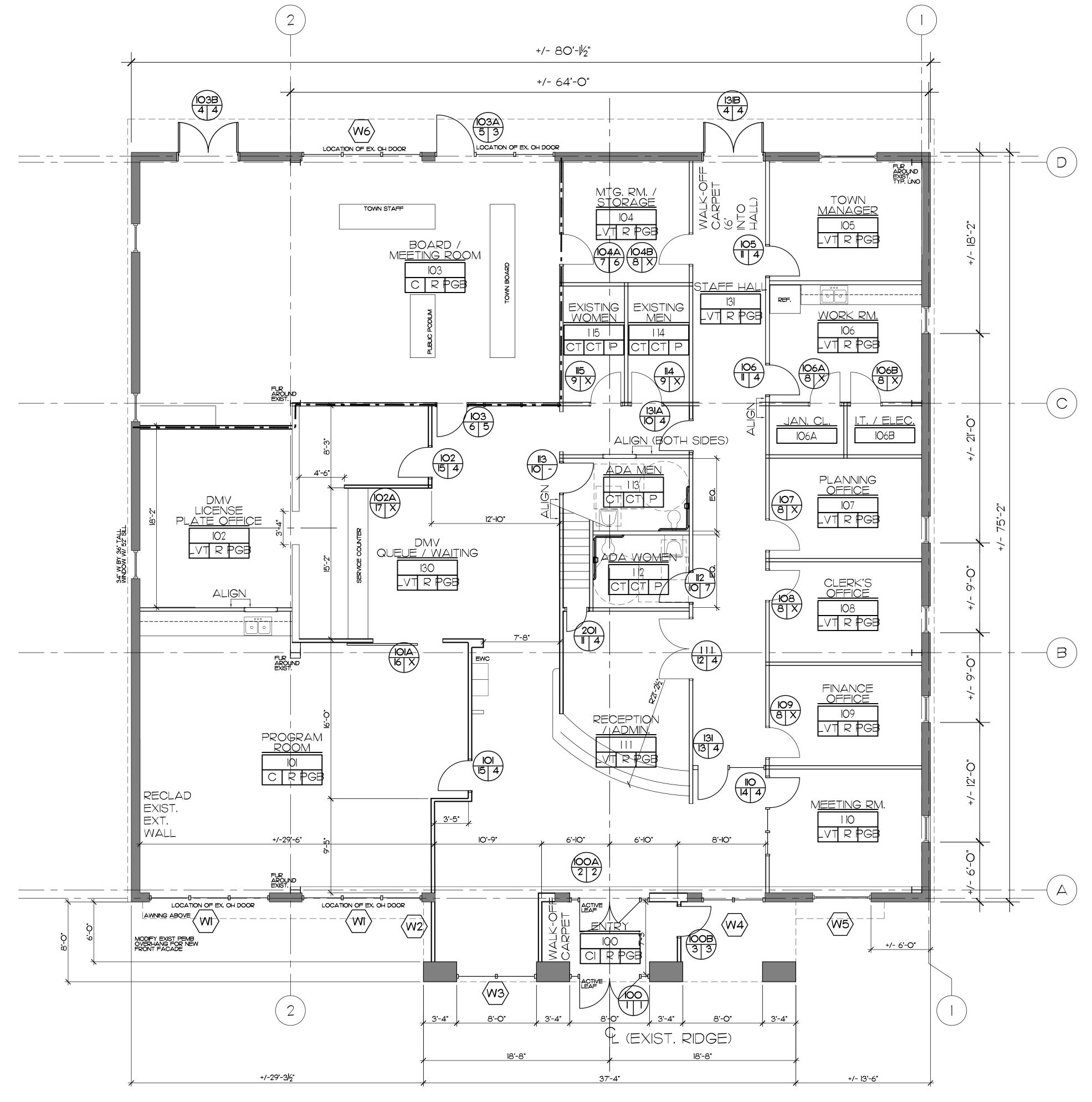
Construction Documents
REVISIONS

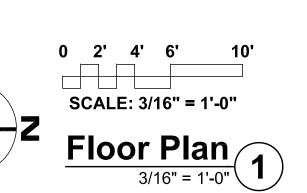
---

ISSUE DATE: 4/30/2025
PROJECT #: 24008
DRAWN BY: ANM

SHEET NUMBER

**40-1** 









SHEET NAME:

FLOOR PLAN

PHASE: Construction

REVISIONS

ISSUE DATE: 4/30/2025
PROJECT #: 24008
DRAWN BY: ANM

SHEET NUMBER

A1-1





SHEET NAME:

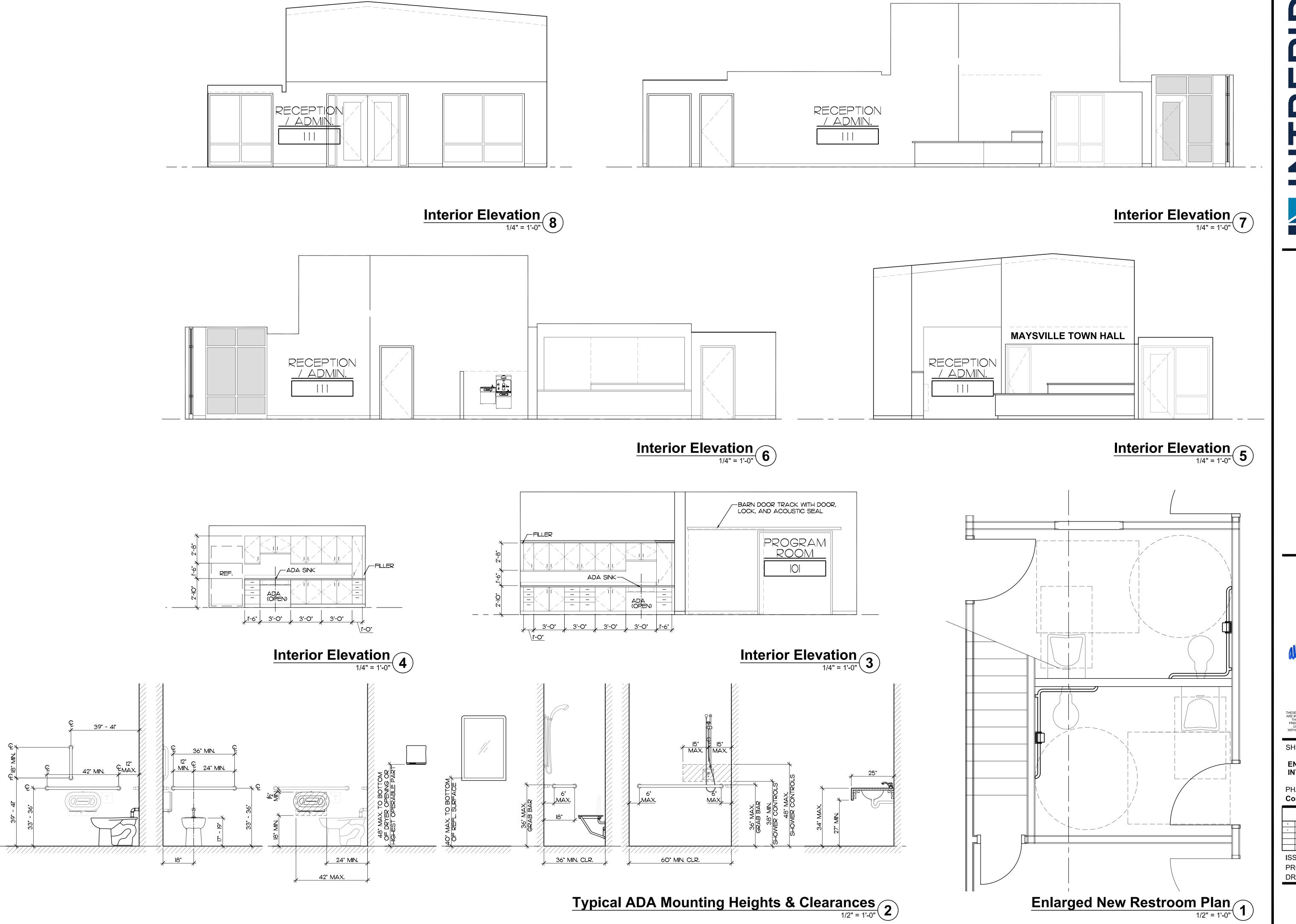
**EXTERIOR ELEVATIONS** AND BUILDING SECTION

**Construction Documents** 

REVISIONS

ISSUE DATE: 4/30/2025 PROJECT #: **24008** 

SHEET NUMBER



ARCHITECTURES:

ARCHITECTURE

Mailing Address:
2104 CROOKED CREEK RD.
GREENVILLE, NC 27858
albimclawhorn@gmail.com
p 252.270.5330

www.INTREPIDarchitecture.com

Town of Maysville inicipal Building Renovatio 404 Main St. Maysville, NC 28555

THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATION ARE INSTRUMENTS OF SERVICE AND SHALL NOT BY USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT (S-INTREPID Architecture 2025)

SHEET NAME:

ENLARGED PLANS AND INTERIOR ELEVATIONS

PHASE:

Construction Documents
REVISIONS

SSUE DATE 4/30/202

ISSUE DATE: **4/30/2025**PROJECT #: **24008**DRAWN BY: **ANM** 

SHEET NUMBER

**A4-1** 

SHEET NAME:

ENLARGED PLANS AND INTERIOR ELEVATIONS

PHASE:

**Construction Documents REVISIONS** 

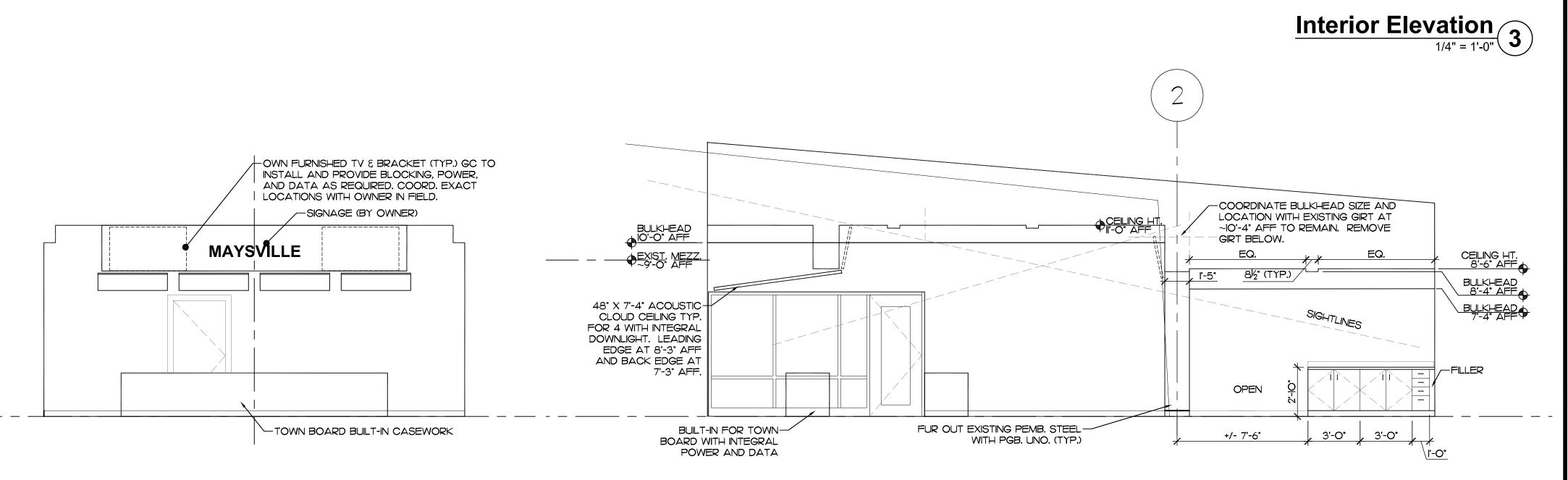
ISSUE DATE: 4/30/2025

PROJECT #: **24008** DRAWN BY: ANM

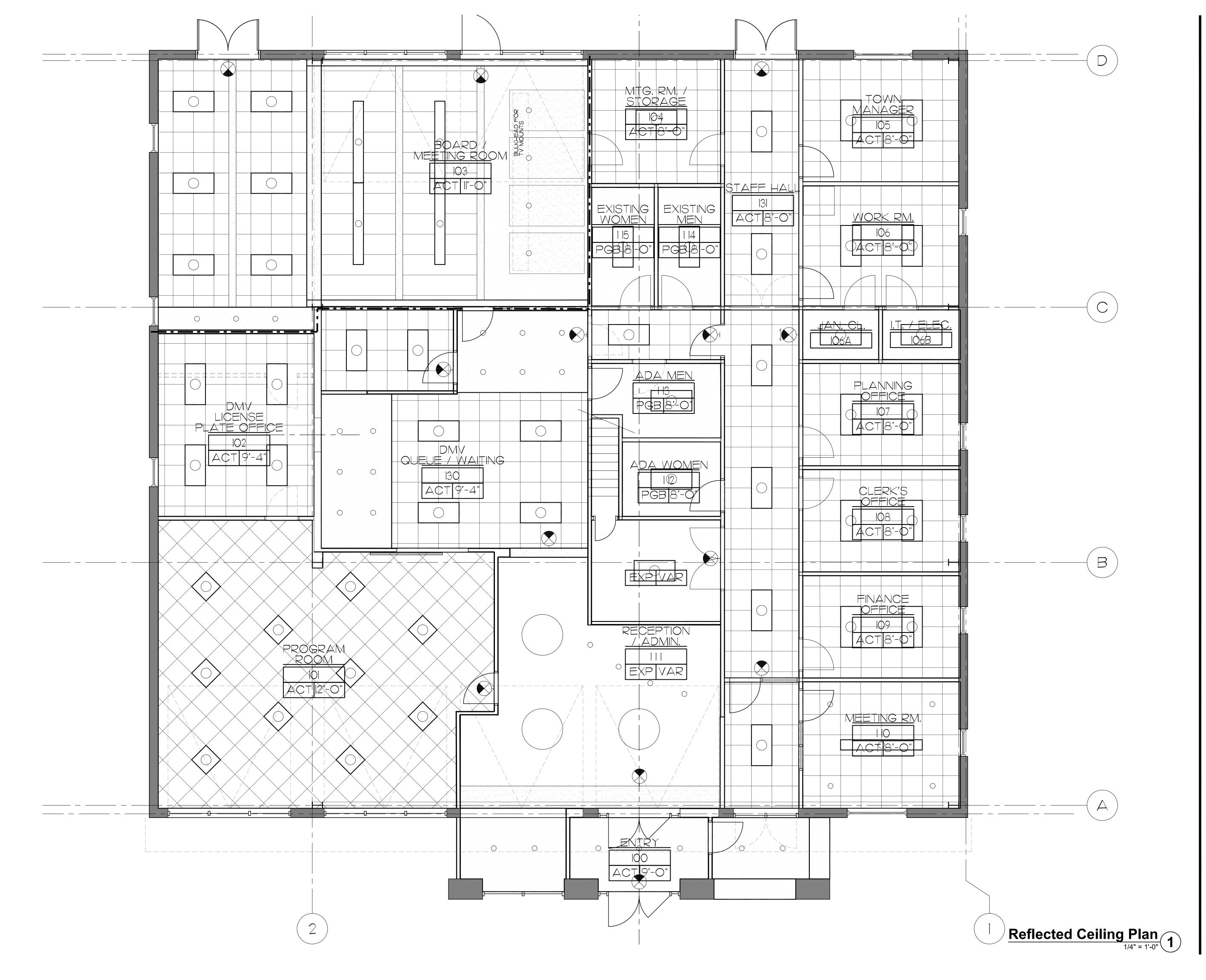
SHEET NUMBER

Interior Elevation
1/4" = 1'-0"
1

-PROVIDE COMMERCIAL-GRADE MOTORIZED ROLLER SHADES AT EXISTING GARAGE DOOR INFILL INFILL EXISTING GARAGE DOOR OPENING WITH NEW STOREFRONT. WINDOWS. -OWN FURNISHED TV & BRACKET PROVIDE INSULATED SPANDREL GLASS ABOVE CEILING. (TYP.) PROVIDE (TYP.) GC TO INSTALL AND INSULATED, TEMPERED GLAZING IN ALL OTHER LOCATIONS UNO. PROVIDE BLOCKING, POWER, 7'-31/4" (EQUAL) AND DATA AS REQUIRED. COORD. EXACT LOCATIONS COORDINATE BULKHEAD SIZE AND LOCATION WITH EXISTING GIRT AT ~10'-4" AFF TO REMAIN. REMOVE WITH OWNER IN FIELD. BULKHEAD 10'-0" AFF GIRT BELOW. 48" X 7'-4" ACOUSTIC CLOUD CEILING TYP. FOR 4 WITH INTEGRAL DOWNLIGHT. LEADING EDGE AT 8'-3" AFF AND BACK EDGE AT 7'-3" AFF. SIGHTLINES FUR OUT EXISTING PEMB. STEEL— WITH PGB. UNO. (TYP.) BUILT-IN FOR TOWN
BOARD WITH INTEGRAL
POWER AND DATA



Interior Elevation
1/4" = 1'-0"
2





Town of Maysville Aunicipal Building Renovation



SHEET NAME:

R.C.P.

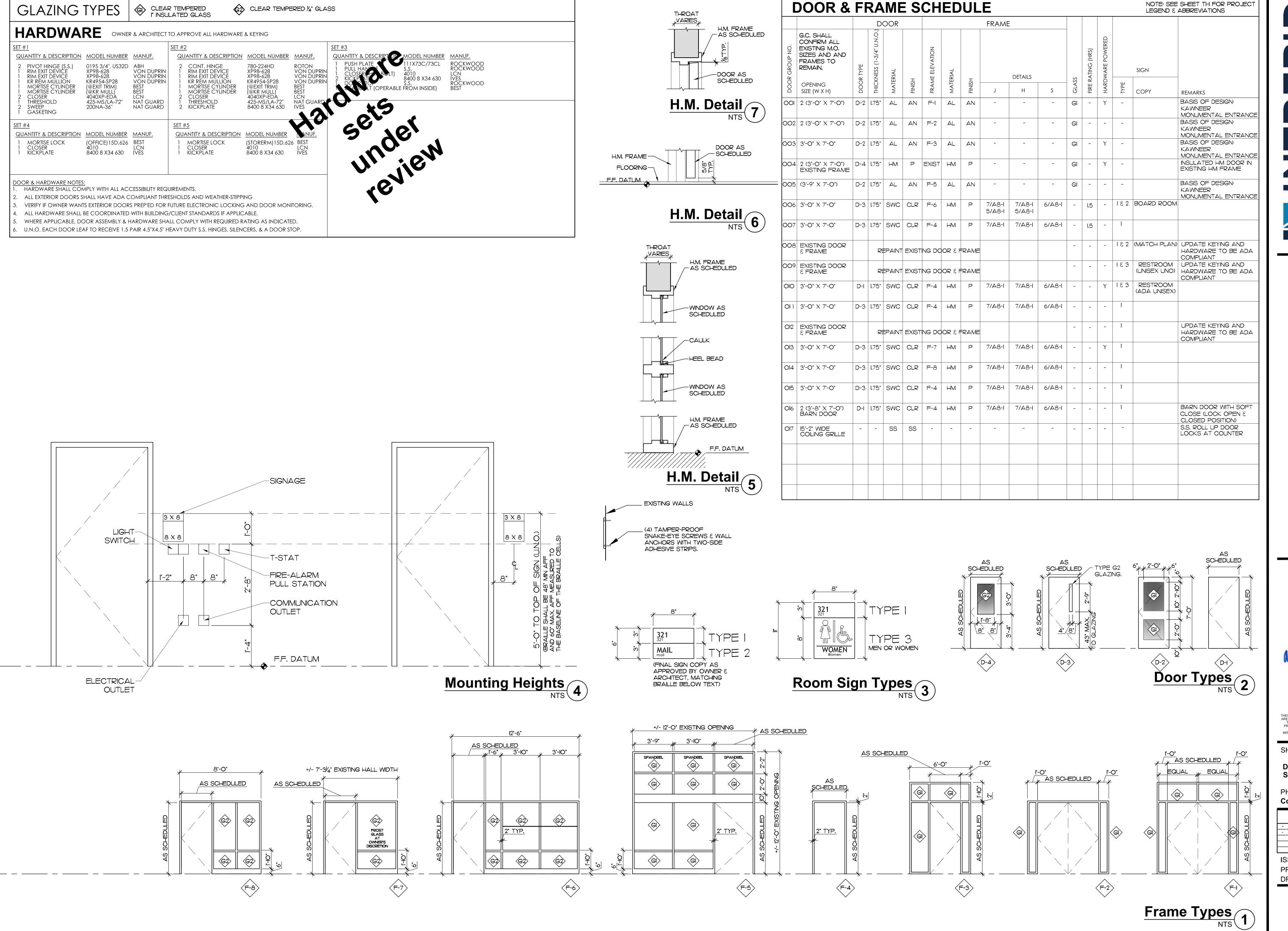
PHASE:
Construction Documents

REVISIONS

ISSUE DATE: 4/30/2025 PROJECT #: 24008

DRAWN BY: ANM
SHEET NUMBER

Δ5\_1





Town of Maysville Iunicipal Building Renovatio 404 Main St.



SHEET NAME:

DOOR & WINDOW SCHEDULES & DETAILS

PHASE:

Construction Documents

REVISIONS

REVISIONS

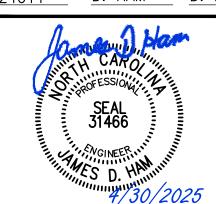
ISSUE DATE: 4/30/2025
PROJECT #: 24008
DRAWN BY: ANM

SHEET NUMBER

101

PROJECT NO. PROJECT MGR. DRAWN BY

224011 D. HAM D. HILL



# DESC: DATE

ISSUE DATE: 04/30/2025 PHASE:

PLUMBING DEMO PLAN

DEMOLITION KEYED NOTES " (#)":

EX. R.R.

EXISTING

TRUCK BAYS

2,630 SF

EXISTING WATER METER SHALL BE REMOVED AND

PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

REPLACED IN NEW LOCATION (SEE SITE/CIVIL PLANS)

R.R.

--<del>E</del>XISTING DMV

160 SF

EXISTING TRAINING RM

442 SF

EXISTING

OFFICE 194 SF

EXISTING DOMESTIC WATER LINE BELOW SLAB (LOCATION

TO BE FIELD VERIFIED)

1. REMOVE WATER HEATER AND PIPING AS NECESSARY TO ALLOW INSTALLATION OF NEW WATER HEATER. PIPING FEEDING EXISTING RESTROOMS MAY REMAIN.

562---SF---

STOR.

I.T.

EXISTING OFFICE/BREAK

EXISTING

155 SF

EXISTING

155 SF

EXISTING

167 SF

2. REMOVE EXISTING WATER CLOSET AND LAVATORY. NEW FIXTURES SHALL BE REPLACED IN EXISTING LOCATIONS.

P.O. BOX 11527 GOLDSBORO, NC 27532 TEL: (919) 778-9064

**REVISIONS:** 

DRAWN BY: DJH/SAL PROJECT #: 23018

CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER



**DEMOLITION NOTES:** 

- 1. PRIOR TO SUBMITTING A BID, CONTRACTOR MUST VISIT THE JOB SITE IN ORDER TO HAVE A WORKING KNOWLEDGE OF THE EXISTING SYSTEMS AND CONDITIONS.
- 2. DEMOLITION PLANS SHOW APPROXIMATE LOCATIONS OF EXISTING PLUMBING SYSTEMS. ALL ITEMS ENCLOSED IN THE STRUCTURE MAY NOT BE NOTED OR MAY BE SHOWN SCHEMATICALLY. PLUMBING CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TERMINATIONS, CAPS AND RECONNECTIONS REQUIRED TO INSTALL A COMPLETE PLUMBING SYSTEM. INFORMATION IS BASED ON NON-DESTRUCTIVE FIELD INVESTIGATION AND/OR EXISTING DRAWING INFORMATION. VERY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONDITIONS THAT REQUIRE CORRECTIVE ACTION BEYOND THE SCOPE OF THESE PLANS. ALL FIELD CORRECTIONS SHALL BE RED-LINED AND PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- 3. ALL CONCEALED PIPING, NOT READILY REMOVABLE SHALL BE CAPPED BELOW FINISH SURFACES.
- 4. FIXTURE REMOVAL SHALL NOT CREATE A DEAD END LINE IN DRAIN & WASTE PIPING. REMOVE INDIVIDUAL LINE OR PROVIDE CLEANOUT AT THE END OF EACH LINE AS REQUIRED.
- 5. GENERAL CONTRACTOR SHALL REPAIR ALL WALL, FLOOR & CEILING OPENINGS FROM DEMOLITION OF PLUMBING WORK. FINISH SURFACES SHALL BE RESTORED TO MATCH ORIGINAL CONDITION. PLUMBING CONTRACTOR SHALL TAKE EXTREME CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING SURFACES.
- 6. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AND WASTE MATERIAL OF DEMOLITION & CONSTRUCTION UNLESS DIRECTED OTHERWISE. THE OWNER RESERVES THE RIGHT TO RETAIN ANY ITEM WHETHER NOTED ON PLANS OR NOT.
- 7. BUILDING SYSTEMS SHUTDOWN PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNER 48 HOURS BEFORE ANY UNAVOIDABLE WATER, DRAIN, GAS SHUTDOWN.
- 8. REFERENCE AND COORDINATE WITH ARCHITECTURAL PLANS FOR CONSTRUCTION PHASING. OWNER WILL OCCUPY THE EAST SIDE OFFICE WHILE THE EXISTING TRUCK BAYS ARE UNDER CONSTRUCTION.

PHASE:

SHEET NAME & NUMBER

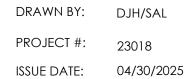
PLUMBING PLAN





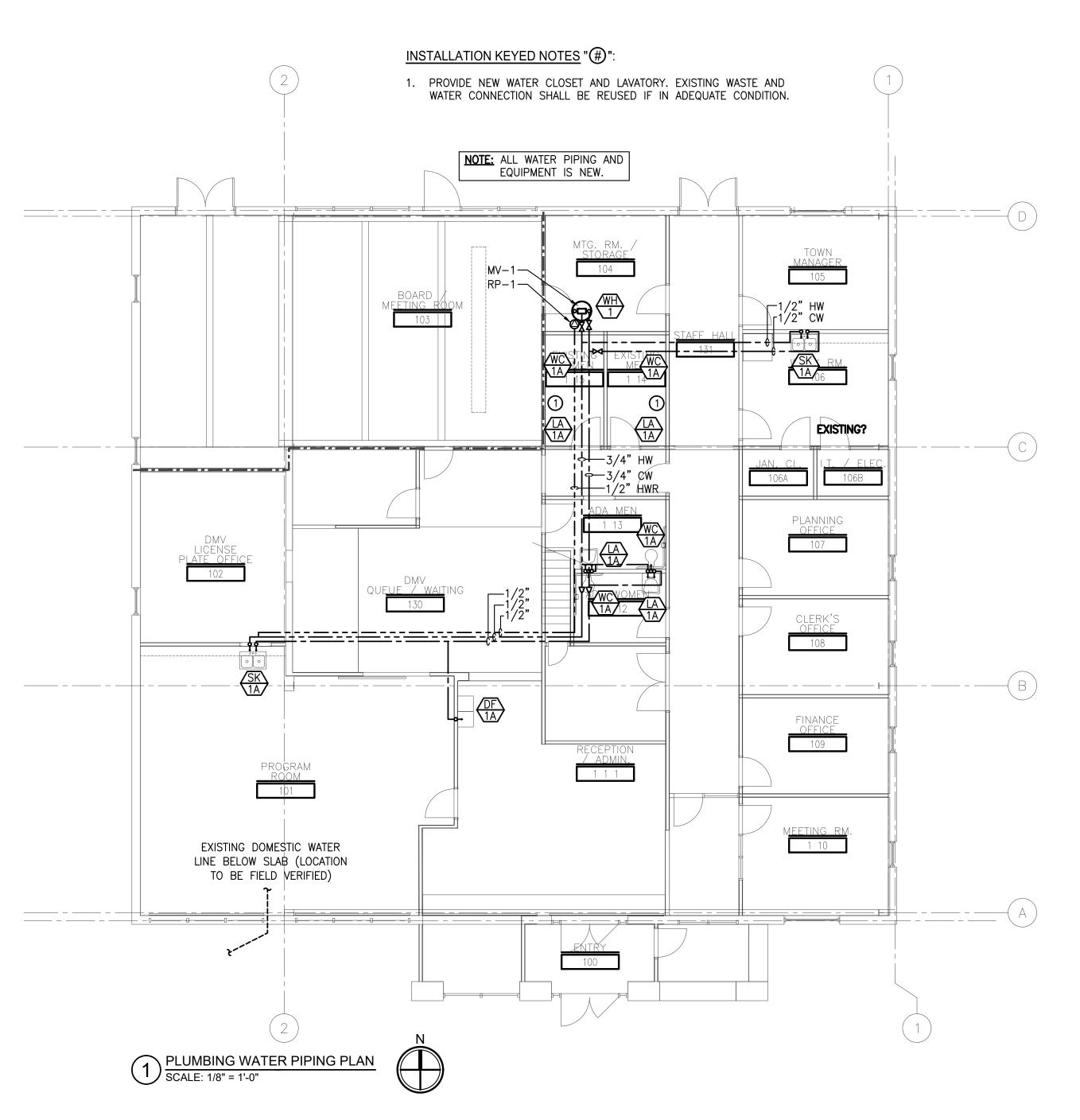






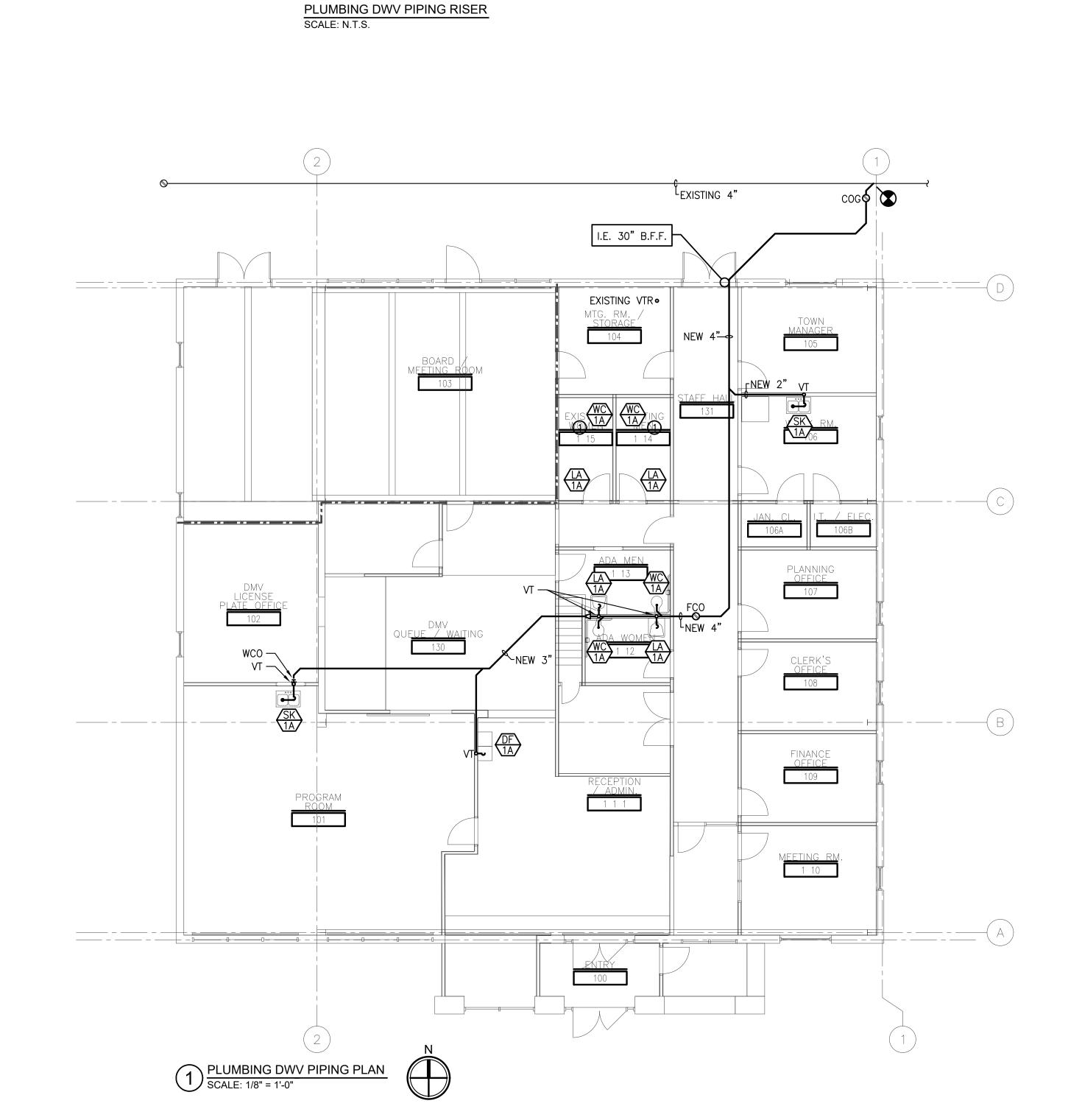
CONSTRUCTION DOCUMENTS



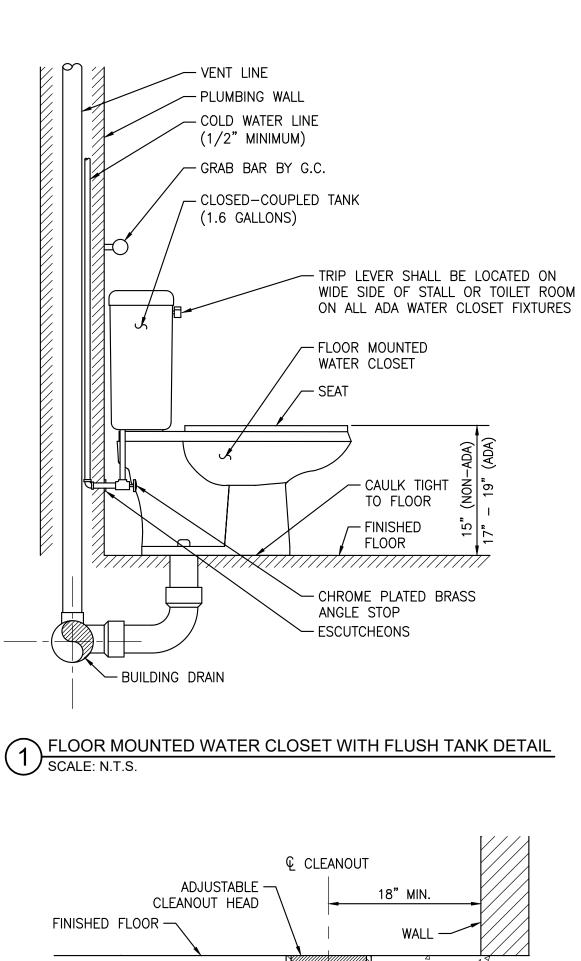


PLUMBING WATER PIPING RISER

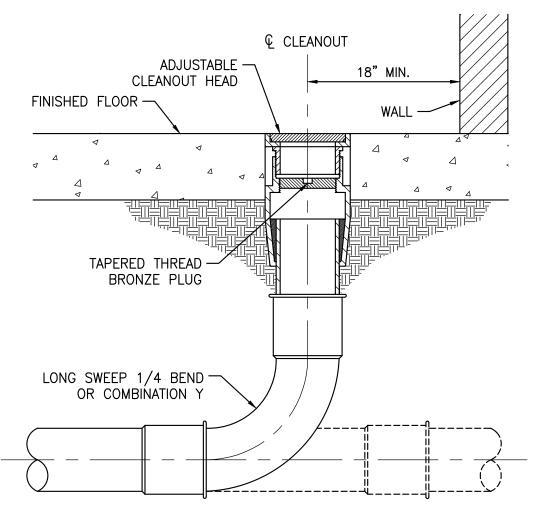
SCALE: N.T.S.



EXISTING VTR



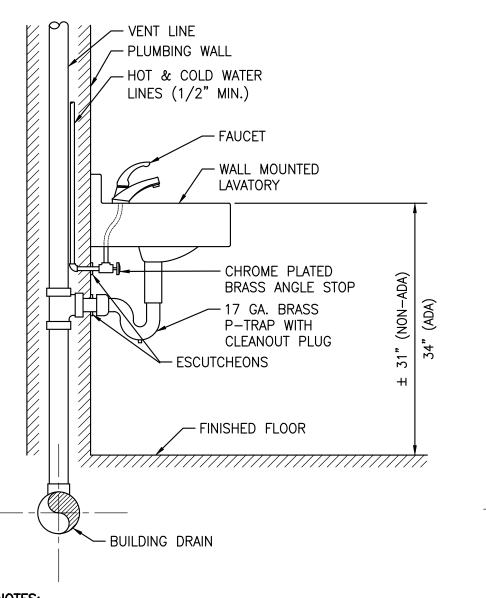




6 FLOOR CLEANOUT WITH SWEEP BEND OR COMBINATION Y DETAIL SCALE: N.T.S.

DOUBLE COMBINATION -

LONG TURN TY



1. PROVIDE ADA LAVATORIES WITH PRE-WRAPPED ANTI-MICROBIAL MOLDED CLOSED CELL VINYL ON EXPOSED HOT & COLD WATER AND DRAIN LINES. 2. WATER SUPPLY INLETS AND RISERS SHALL BE BRASS OR COPPER (CHROME PLATED WHERE EXPOSED TO VIEW).

WALL MOUNTED LAVATORY DETAIL

SCALE: N.T.S.

1. G.C. SHALL PROVIDE ADA COMPLIANT UNDERSPACE SINK PROTECTIVE ENCLOSURES FOR ALL ADA SINKS. 2. WATER SUPPLY INLETS AND RISERS SHALL BE BRASS OR COPPER (CHROME PLATED WHERE EXPOSED TO VIEW.)

- BUILDING DRAIN

VENT LINE

/- PLUMBING WALL

(1/2" MINIMUM)

— HOT & COLD WATER LINES

COUNTERTOP SINK

COUNTER & BASE

CABINET BY G.C.

ANGLE STOP

-17 GA. BRASS

P-TRAP WITH

CLEANOUT PLUG 2

- ADA COMPLIANT

UNDER SINK

ENCLOSURE

- ESCUTCHEONS

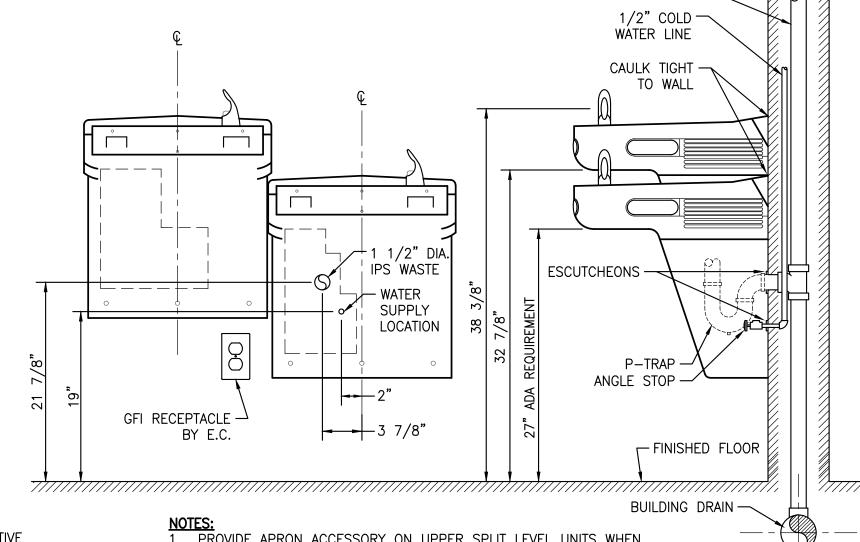
- FINISHED FLOOR

3 COUNTERTOP MOUNTED SINK DETAIL SCALE: N.T.S.

- HORIZONTAL BRANCH (TYPICAL)

- COMBINATION LONG TURN TY

- HORIZONTAL DRAIN



VENT LINE —

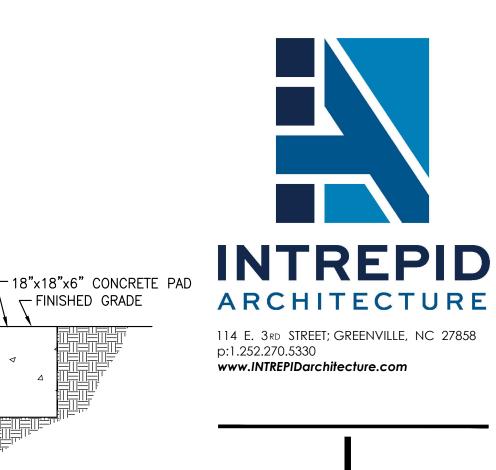
NOTES:

1. PROVIDE APRON ACCESSORY ON UPPER SPLIT LEVEL UNITS WHEN INSTALLED IN NON-RECESSED APPLICATIONS COORDINATE SOLID SUPPORT WOOD BLOCKING REQUIREMENTS WITH G.C.

3. COORDINATE RECEPTACLE MOUNTING LOCATION WITH E.C. PER

INSTALLATION INSTRUCTIONS. WALL MOUNTED ELECTRIC WATER COOLER DETAIL SCALE: N.T.S.

WATER HAMMER ARRESTOR DETAIL SCALE: N.T.S.



TAPERED THREAD -BRONZE PLUG LONG SWEEP 1/4 BEND -

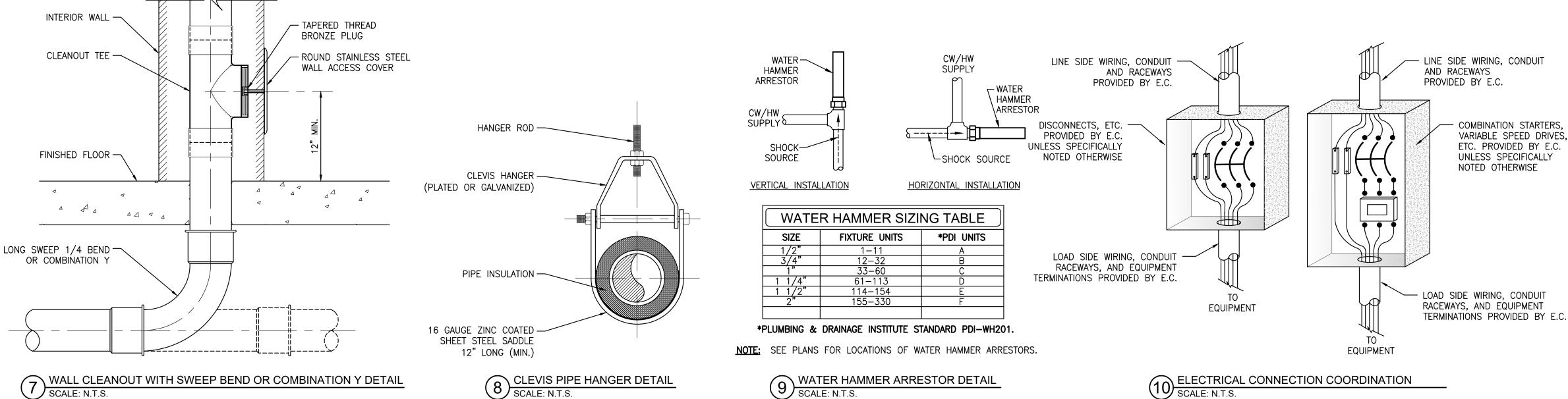
ADJUSTABLE -

CLEANOUT HEAD

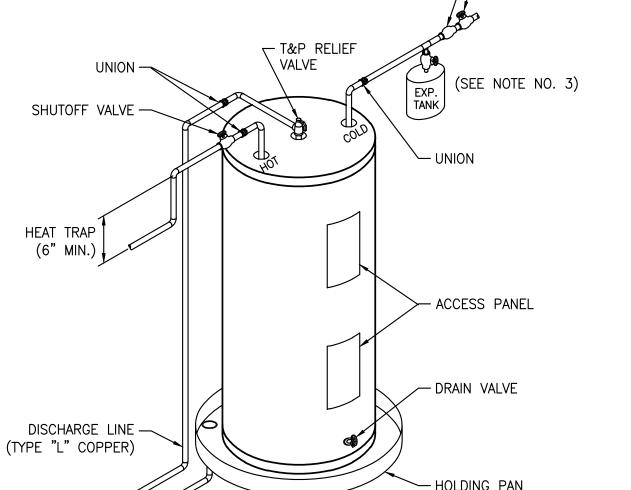
CLEANOUT ON GRADE WITH LONG SWEEP BEND DETAIL SCALE: N.T.S.

€ CLEANOUT

FINISHED GRADE







(SEE NOTE NO. 2)

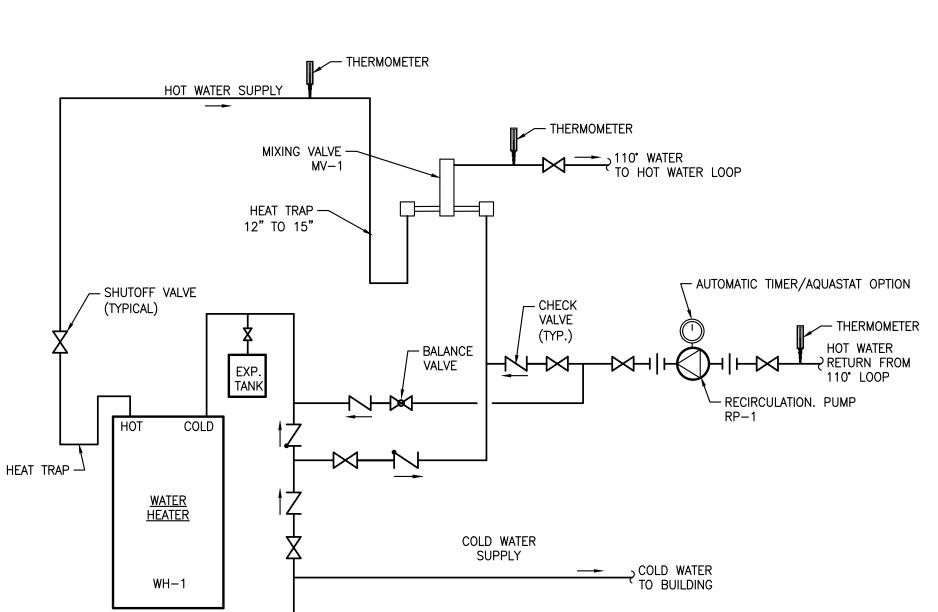
- 1. PAN SHALL BE CONSTRUCTED OF A MIN. OF 24 GA. GALV. METAL OR 1/16 INCH HIGH IMPACT PLASTIC AND SUFFICIENT SIZE & SHAPE TO RECEIVE ALL DRIPPINGS.
- 2. DISCHARGE LINE SHALL BE CLAMPED OR OTHERWISE SUPPORTED IN ACCORDANCE WITH NCPC TABLE 308.5 OR SUPPORT WITHIN 12 INCHES OF DISCHARGE. 3. DISCHARGE & PAN DRAIN SHALL BE FULL-SIZE OF RELIEF VALVE BUT NOT LESS THAN 1 INCH, TERMINATING OVER A SUITABLY LOCATED DRAIN OR EXTERIOR OF

PAN DRAIN LINE

BUILDING 6 INCHES ABOVE DRAIN/GRADE.

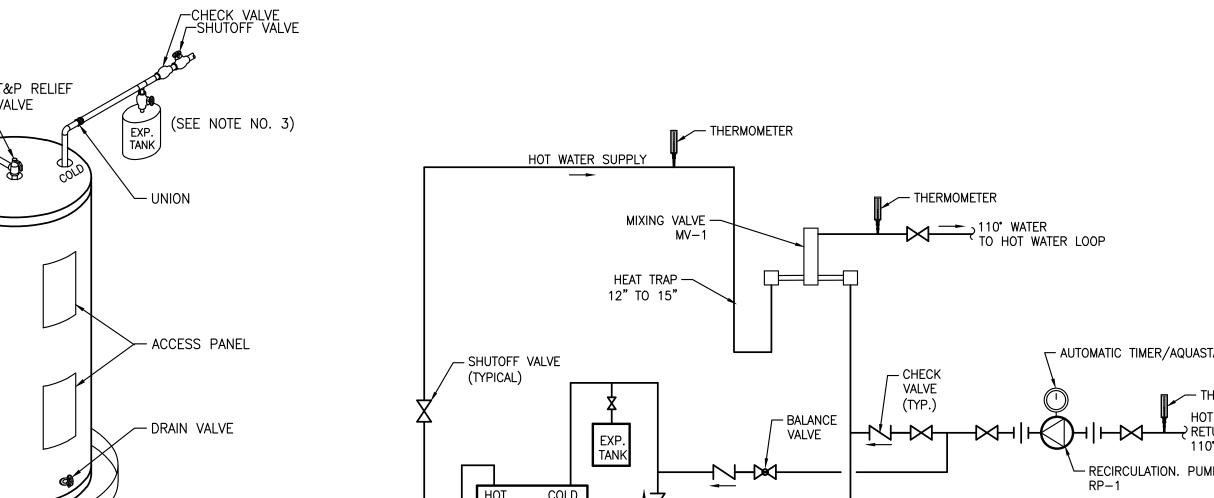
(TYPE "L" COPPER)

4. PROVIDE PRE-CHARGED DIAPHRAGM EXPANSION TANK ON SYSTEMS HAVING CHECK VALVES OR BACKFLOW PREVENTERS ON SUPPLY WATER LINE. TANK SHALL BE AS SPECIFIED IN SPECIALTIES SCHEDULE AND APPROVED FOR POTABLE WATER SYSTEMS. ATTIC MOUNTED ELECTRIC WATER HEATER DETAIL SCALE: N.T.S.



NOTE: SETUP RECIRCULATION SYSTEM PER MIXING VALVE'S INSTALLATION INSTRUCTION.

HOT WATER RECIRCULATION SCHEMATIC 13) SCALE: N.T.S.



PHASE: CONSTRUCTION DOCUMENTS SHEET NAME & NUMBER

**PLUMBING DETAILS** 

DRAWN BY: DJH/SAL

ISSUE DATE: 04/30/2025

PROJECT #: 23018

P.O. BOX 11527

**REVISIONS:** 

# DESC:

GOLDSBORO, NC 27532

TEL: **(919) 778**–**9064** 

PROJECT NO. PROJECT MGR. DRAWN BY D. HAM

NC LIC #: C-1132

DATE

- HORIZONTAL BRANCH (TYPICAL) -DOUBLE WYE & 1/8 BEND - HORIZONTAL DRAIN COMBINATION LONG TURN TY S WYE -STAGGARD ACCEPTABLE ( EIGHTH BEND — NOTE: PLUMBING DRAIN CONNECTION DETAIL (FOR USE WITH BACK-TO-BACK HORIZONTAL BRANCH CONNECTIONS). UNACCEPTABLE METHODS REQUIRED METHODS

HORIZONTAL DRAIN CONNECTION DETAIL SCALE: N.T.S.

( EnTech	PLUMBI	NG LEGEND
SYMBOL	ABBR	DESCRIPTION
	CW	COLD WATER LINE
	HW	HOT WATER LINE
	HWR	HOT WATER RETURN LINE
	W	SOIL OR WASTE LINE
	VT	VENT LINE
<u>니</u> ㄴ :	VTR	VENT THRU ROOF
<b>+</b> 1 ⊗	WCO	WALL CLEANOUT
$\bigcirc$	FC0	FLOOR CLEANOUT
	COG	CLEANOUT ON GRADE
++	HB	HOSE BIB/HYDRANT
++	FHB	FROSTPROOF HOSE BIB/HYDRANT
Ą	WA	WATER ARRESTOR (PDI SIZE "A")
<b>──</b> ₩	_	SHUTOFF VALVE
	BFP	BACKFLOW PREVENTER
<del></del>	_	UNION
Ы	_	THERMOMETER
<b>──</b>	_	CONCENTRIC REDUCER
	_	FLOW DIRECTION ARROW
$\longleftrightarrow$	_	FIXTURE MARK (SEE SCHEDULE)
lacksquare	_	NEW/EXISTING CONNECTION
l	G.C. P.C. M.C. E.C. AFF AFG BFG	GENERAL CONTRACTOR PLUMBING CONTRACTOR MECHANICAL CONTRACTOR ELECTRICAL CONTRACTOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE BELOW FINISHED GRADE

## PLUMBING NOTES:

- 1. PLUMBING PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE PLUMBING SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A COMPLETE AND OPERATING SYSTEM.
- 2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF PLUMBING INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. THE EXACT LOCATION AND DETAILS OF EQUIPMENT MAY REQUIRE DEVIATIONS FROM PLANS AS THEY ARE DIAGRAMMATIC. DRAWINGS ALLOW FOR SHOWING SYMBOLS AND MULTIPLE PIPES TO PRINT CLEARLY. MATERIALS SHALL BE INSTALLED THAT ALLOW FOR EASY ACCESS, MAINTENANCE, AND OVERALL GOOD QUALITY OF WORK.
- 3. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE, AND RESOLVE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE PLANS WITH THE ENGINEER. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
- 4. ALL WORK SHALL COMPLY WITH 2018 NC PLUMBING CODE & ADA CODES, AS WELL AS FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- 5. BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. BY APPROVAL AND SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ENGINEER, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED AND CHECKED THE INFORMATION WITHIN THE SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE ON SUBMITTAL OF ANY DEVIATIONS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS REQUIREMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS OR OTHER SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND SUCH DEVIATION HAS BEEN APPROVED IN WRITING.
- 6. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- 7. COORDINATE CONNECTION OF PLUMBING SYSTEMS WITH SITE UTILITIES AND SERVICES. P.C. SHALL EXTEND WATER SUPPLY LINE 5-FEET OUTSIDE OF BUILDING AND EXTEND BUILDING DRAIN 10-FEET OUTSIDE OF BUILDING & PROVIDE 2-WAY CLEANOUT.
- 8. COORDINATE VENT THRU ROOF (VTR) LOCATIONS WITH OUTSIDE AIR INTAKES OF HVAC UNITS TO MAINTAIN A MINIMUM CLEARANCE OF 20 FEET. VTR SHALL BE LOCATED ON REAR OF PITCHED ROOF BUILDINGS AND NOT VISIBLE FROM FRONT OF BUILDING.
- 9. CONTRACTOR SHALL COORDINATE LOCATION & TYPE OF VTR BOOTS WITH G.C.. CONTRACTOR SHALL FURNISH & INSTALL THE REQUIRED BOOTS. G.C. SHALL ENGAGE ROOFING CONTRACTOR TO ASSURE WEATHER—TIGHTNESS OF INSTALLATION. ANY EXPOSED PVC PIPING SHALL BE PAINTED WITH 2—COATS OF LATEX PAINT COLOR SELECTED BY ARCHITECT.
- 10. COORDINATE INSTALLATION OF PLUMBING LINES WITH BLOCK WALLS SO THAT ALL LINES ARE PLACED WITHIN WALLS DURING WALL CONSTRUCTION. CUTTING AND PATCHING OF WALLS IN PLACE IS NOT PERMITTED.
- 11. DRAIN, WASTE & VENT (DWV) PIPING SHALL BE ASTM D 2665, SOLID—WALL, SCHEDULE 40 PVC WITH SOLVENT—WELDED SOCKET TYPE FITTINGS (FOAM CORE PIPING IS NOT ACCEPTABLE). INSTALL PVC PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE AND FITTINGS MANUFACTURER, APPENDIX X1 OF ASTM D2265 AND FOR BURIED PIPE ASTM D2321. SUCH INSTRUCTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS, ALIGNMENT AND GRADE, TRENCHING, BEDDING, BACKFILL AND COMPACTION, SUPPORTS AND SPACING AND ALLOWANCE FOR THERMAL EXPANSION.
- 12. ABOVE GRADE/SLAB WATER PIPING SHALL BE ASTM B 88, HARD DRAWN, TYPE L COPPER WITH SOLDERED, BRAZED WROUGHT-COPPER FITTINGS OR VIEGA PROPRESS FITTINGS.
- 13. BELOW GRADE/SLAB WATER PIPING (INSIDE OF BUILDING) SHALL BE ASTM B 88, SOFT ANNEALED, TYPE K
  COPPER WITH SOLDERED OR BRAZED WROUGHT-COPPER FITTINGS. MINIMIZE JOINTS BELOW SLAB.
- 14. DOMESTIC WATER SERVICE PIPING: (SEE SITE PLANS).
- 15. WATER PIPE & FITTINGS AND LEAD FREE SOLDER & FLUX SHALL BE IN ACCORDANCE WITH NC PLUMBING CODE SECTION 605.
- 16. INDIVIDUAL SUPPLY AND DRAIN CONNECTIONS SIZES ARE NOT INDICATED ON PLANS FOR CLARITY. SIZE EACH TO SUIT RESPECTIVE FIXTURE.
- 17. HOT WATER RE-CIRCULATION PIPING SHALL BE ROUTED WITHIN 12" HORIZONTALLY OF THE VERTICAL PIPE FEEDING THE FIXTURE.
- 18. WATER PIPING ON OUTSIDE WALLS AND IN CEILING SHALL BE LOCATED BETWEEN BUILDING INSULATION AND CONDITIONED SPACE.
- 19. PROVIDE SHUTOFF VALVES AT EACH MAIN BRANCH LINE. VALVES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. PROVIDE CEILING ACCESS DOORS WHERE REQUIRED TO ACCESS SERVICEABLE VALVES LOCATED ABOVE GYPBOARD CEILINGS.
- 20. UNLESS NOTED OTHERWISE ALL VALVES SHALL BE FULL PORT BRONZE OR BRASS BALL VALVES WITH THREADED OR SWEAT CONNECTIONS AS APPLICABLE TO THE CONNECTING PIPING.
- 21. PROTECT COPPER PIPING FROM DIRECT CONTACT WITH MASONRY OR DISSIMILAR METAL. HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER PLATED OR PROVIDED WITH ELECTROLYTIC ISOLATION MATERIAL ON COPPER PIPING. ALL OTHER HANGERS AND SUPPORTS SHALL BE PAINTED OR GALVANIZED. PIPING PASSING THROUGH CONCRETE/MASONRY WALLS OR FLOORS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY PROTECTIVE SHEATHING OR WRAPPING.
- 22. INSTALL SCHEDULE 80 PVC OR DUCTILE IRON PIPE SLEEVE TWO SIZES LARGER AT PENETRATIONS THROUGH OR UNDER FOOTINGS OR FOUNDATION WALLS. SEAL SLEEVE TIGHT TO FOUNDATION WALL.
- 23. PROVIDE MECHANICAL WATER HAMMER ARRESTORS AS SHOWN ON PLANS, WATER RISER, OR AS REQUIRED BY SYSTEM.
- 24. PROVIDE INSULATION EQUAL TO MCGUIRE PROWRAP ON P-TRAP ASSEMBLIES AND HOT & COLD WATER PIPING FOR LAVATORIES WITH EXPOSED PIPING.
- 25. VERIFY FINAL LOCATIONS FOR ROUGH—INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
- 26. INSTALL PLUMBING FIXTURES AND EQUIPMENT LEVEL & PLUMB. ROUTE PIPING PARALLEL & PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MFG'S WRITTEN INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS.
- 27. ALL FIXTURES & EXPOSED SURFACES SHALL BE WASHED & CLEANED AND PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
- 28. DWV AND WATER DISTRIBUTION PIPING SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE
- 29. POTABLE WATER PIPING SHALL BE PURGED AND DISINFECTED. FLUSH SYSTEM WITH CLEAN, POTABLE WATER. ISOLATE AND FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 200 PPM OF CHLORINE. ALLOW TO STAND FOR THREE HOURS. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE SOLUTION IS REMOVED. SUBMIT WATER SAMPLE REPORT TO AUTHORITY HAVING JURISDICTION.
- 30. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1—YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.

(CENTOC	<u></u>		PLUM	IBING F	IXTURE SCHEDULE	
FIX. NO.	DESCRIPTION	CW	HW	DRAIN	FAUCETS, VALVES & ACCESSORIES	NOTES
WC-1A	WATER CLOSET TANK TYPE, FLOOR MOUNTED, ELONGATED LOW-CONSUMPTION (1.6 GPF) FULLY GLAZED 2 1/8 MIN. BALL PASS TRAPWAY MEETS ASME A112.19.2M & 19.6M ADA (+/-17" RIM HEIGHT)	1/2"		3"	FIXTURE BY: AMERICAN STANDARD, SLOAN OR KOHLER SEAT: SELF—SUSTAINING WITH OPEN FRONT LESS COVER MATERIAL: VITREOUS CHINA COLOR: WHITE	TANK SHALL HAVE RIGHT HAND OR LEFT HAND TRIP LEVER AS REQUIRED TO MEET ADA (SEE DETAIL)
LA-1A	WALL HUNG LAVATORY WHITE 20"X18" WITH BACK & SIDE SPLASH SHIELDS CHROME SINGLE LEVER FAUCET (0.5 GPM AERATOR) MEETS ASME A112.19.2M ADA & NON-ADA APPLICATIONS	3/8"	3/8"	1 1/4"	FIXTURE BY: AMERICAN STANDARD MURRO 0954.004EC (4" CENTERSET), SLOAN OR KOHLER FAUCET: EQUAL TO DELTA 523LF-HGMHDF (4" CENTERSET) STRAINER: MCGUIRE 155A MATERIAL: VITREOUS CHINA SINK AND KNEE SHROUD WALL CARRIER: ZURN Z1231 OR Z1231-D SHROUD: AMERICAN STANDARD 0059.020EC (VITREOUS CHINA)	- REFER TO ARCHITECTURAL DWGS FOR SPECIFIC MOUNTING HEIGHTS - PROVIDE WITH 3/8" BRAIDED STAINLESS LAVATORY RISERS (MCGUIRE SSLAV)
SK-1A	DOUBLE BOWL SINK (33" X 22" X 8") 18 GAUGE TYPE 304, 18-8 STAINLESS STEEL SOUND DEADENING COATING SIDES AND BOTTOM DUAL LEVER FAUCET WITH SPRAYER (1.5 GPM AERATOR) ADA COMPLIANT	1/2"	1/2"	1 1/2"	FIXTURE BY: ELKAY, JUST, KOHLER OR MOEN FAUCET: EQUAL TO DELTA 27C1934 STRAINER: MCGUIRE 151A RISER: 3/8" BRAIDED STAINLESS (MCGUIRE SSLAV)	LISTED SIZES INDICATE SIDE TO SIDE DIMENSION X FRONT TO BACK DIMENSION X DEPTH
DF-1A	ELECTRIC WATER COOLER DUAL LEVEL, WALL MOUNT WITH STAINLESS STEEL CABINET ADA COMPLIANT	3/8"		1 1/4"	EQUAL TO ELKAY EZSTL8C BUBBLER: FLEXI—GUARD ANTI—MICROBIAL SAFETY TYPE CABINET FINISH: STAINLESS STEEL OPTION ELECTRICAL: 4 AMPS @ 120V/1PH SUPPORT: ZURN Z1225 WITH DURA—COAT	PROVIDE WITH CANE APRON OPTION IN NON-RECESSED APPLICATIONS.

PLUMBING SPECIALTIES SCHEDULE						
MARK	DESCRIPTION	MANF.	REFERENCE MODEL NO.	NOTES		
FC0	ADJUSTABLE FLOOR CLEANOUT WITH BRONZE PLUG	MIFAB	C1220-1-34B-P	SEE PLANS FOR SIZES, NICKEL BRONZE TOP		
COG	WHEEL TRAFFIC CLEANOUT ON GRADE WITH BRONZE PLUG	MIFAB	C1220-4-34B-P-XR	SEE PLANS FOR SIZES, HEAVY DUTY TOP		
WCO	WALL CLEANOUT WITH BRONZE PLUG & S.S. COVER	MIFAB	C1430-RD	SEE PLANS FOR SIZES		
WHA	WATER HAMMER ARRESTOR	PPP	SWA (PDI SIZE)			
MV-1	THERMOSTATIC MIXING VALVE (SETPOINT: 110°F)	LEONARD	270-LF-SW-DT (1/2" INLET/OUTLET)	7.5 GPM @ 20 PSI PRESSURE DROP		
EXP	WATER HEATER EXPANSION TANK	A.O. SMITH	PMC-2 (2 GALLON)			
RP-1	HOT WATER RECIRCULATION PUMP WITH AUTOMATIC TIMER	B&G	NBF-22U WITH HONEYWELL L4008 AQUASTAT	120V CONNECTION REQUIRED (1 AMP)		
BFP-1	BACKFLOW PREVENTER (RPZ) - DOMESTIC WATER	WATTS	LF009M2QT-S-1"	PROVIDED WITH HEATED ENCLOSURE		
BFP-2	BACKFLOW PREVENTER (RPZ) - DOMESTIC WATER	WATTS	LF009M2QT-S-1 1/4"	PROVIDED WITH HEATED ENCLOSURE		

PLUMBING PIPING INSULATION TABLE							
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS	
DOMESTIC WATER	BUILDING ENVELOPE	PREFORMED GLASS FIBER	ASJ	COLD 1/2" OR LESS COLD 3/4" - 3" HOT 1 1/2" OR LESS HOT > 1 1/2" HW RECIRCULATION	1/2" 1" 1" 1.5" 1"	_	
	UNCONDITIONED SPACE	PREFORMED GLASS FIBER	ASJ	ALL	1 1/2"	R-VALUE: 6.5 MINIMUM	

## NOTES:

1. ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

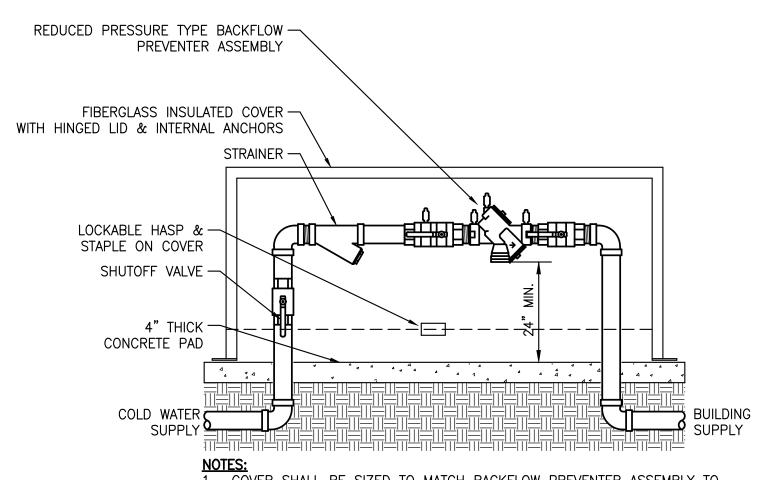
	ELECTRIC WATER HEATER SCHEDULE											
MARI	SIZE	GPH	TEMP. RISE	KW	VOLT/PH	FLA	CW CONN.	HW CONN.	MANF.	REF. MODEL	OPERATING SIZE HTxC	)IA
WH-	1 40 GAL	23.0	80°F	4.5	240V/1ø	19	3/4"	3/4"	A.O. SMITH	DEL-40	460 LBS 32"x24"	Ď

<u>NOTES:</u> 1 - Set outlet water temperature at 110°!

SET OUTLET WATER TEMPERATURE AT 110°F.
 PROVIDE WITH 3-YEAR TANK WARRANTY AND 1-YEAR PARTS WARRANTY.

<b>CENTECH</b>	EQUAL MANUFACTURE	ERS
DESCRIPTION	SPECIFIED MANUFACTURER	ACCEPTABLE SUBSTITUTIONS
WATER CLOSETS	AMERICAN STANDARD	CRANE, KOHLER, MANSFIELD
URINALS	AMERICAN STANDARD	CRANE, KOHLER, ELJER
FLUSH VALVES	SLOAN	ZURN
LAVATORIES	AMERICAN STANDARD	CRANE, KOHLER
STAINLESS STEEL SINKS	JUST	ELKAY, KOHLER, MOEN
MOP SINKS	FIAT	ACORN, STERN WILLIAMS
DRINKING FOUNTAINS	OASIS	ACORN, ELKAY, SUNROCK, HAWS
FAUCETS	DELTA	BRADLEY, CHICAGO, KOHLER, MOEN
WATER HEATERS	STATE	RHEEM, A.O. SMITH, CEC
DRAINS & CLEANOUTS	ZURN	JOSAM, JR SMITH

NOTE: SPECIFIED PRODUCTS INDICATE QUALITY AND OPTIONS REQUIRED FOR THIS PROJECT. EQUAL PRODUCTS/MANUFACTURERS ARE ACCEPTABLE.



 COVER SHALL BE SIZED TO MATCH BACKFLOW PREVENTER ASSEMBLY TO ALLOW ADEQUATE CLEARANCE FOR TESTING AND MAINTENANCE.
 PROTECT PIPING & ASSEMBLY FROM FREEZING WITH HEATER OPTION.





114 E. 3RD STREET; GREENVILLE, NC 27858 p:1.252.270.5330 www.INTREPIDarchitecture.com

AAYSVILLE TOWN HALI

P.O. BOX 11527 NC LIC #: C-113 GOLDSBORO, NC 27532

PROJECT NO. PROJECT MGR. DRAWN BY D. HILL

TEL: **(919) 778**–**9064** 



REVISIONS:

# DESC: DATE

DRAWN BY: DJH/SAL PROJECT #: 23018

ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION
DOCUMENTS

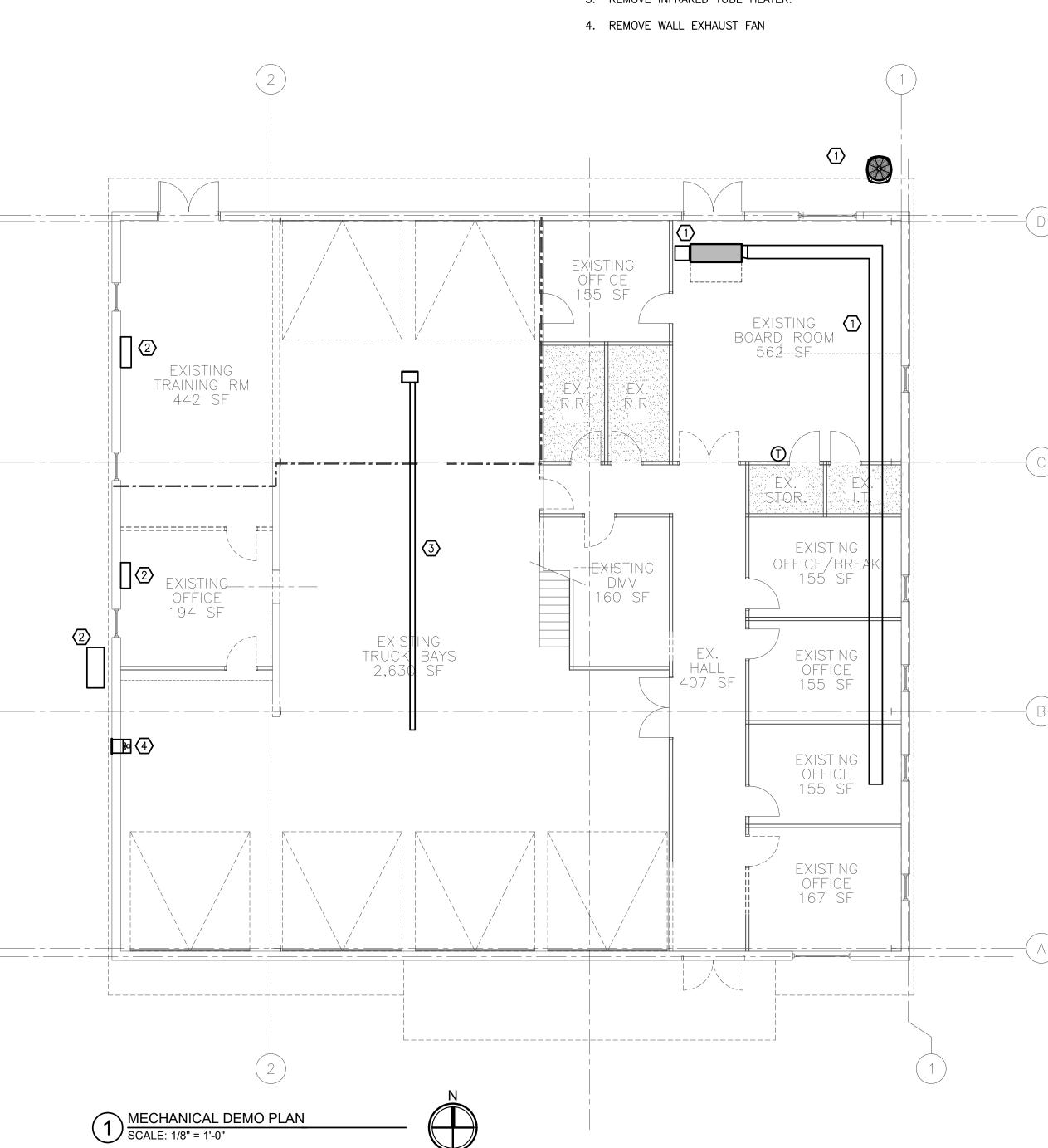
SHEET NAME & NUMBER

PLUMBING SCHEDULES

P3.1

# DEMOLITION KEYED NOTES "(#)":

- 1. REMOVE OUTDOOR CONDENSING UNIT, AIR HANDLER ON MEZZANINE, AND ALL ASSOCIATED DUCT, DIFFUSERS, REFRIGERANT PIPING, THERMOSTAT, ETC.
- 2. REMOVE DUCTLESS OUTDOOR UNIT, ASSOCIATED INDOOR UNITS, AND ALL REFRIGERANT PIPING.
- 3. REMOVE INFRARED TUBE HEATER.



# DEMOLITION NOTES:

- 1. PRIOR TO SUBMITTING A BID, CONTRACTOR MUST VISIT THE JOB SITE IN ORDER TO HAVE A WORKING KNOWLEDGE OF THE EXISTING SYSTEMS AND CONDITIONS.
- 2. DEMOLITION PLANS SHOW APPROXIMATE LOCATIONS OF EXISTING MECHANICAL SYSTEMS. ALL ITEMS ENCLOSED IN THE STRUCTURE MAY NOT BE NOTED OR MAY BE SHOWN SCHEMATICALLY. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TERMINATIONS, CAPS AND RECONNECTIONS REQUIRED TO INSTALL A COMPLETE HVAC SYSTEM. INFORMATION IS BASED ON NON-DESTRUCTIVE FIELD INVESTIGATION AND/OR EXISTING DRAWING INFORMATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONDITIONS THAT REQUIRE CORRECTIVE ACTION BEYOND THE SCOPE OF THESE PLANS. ALL FIELD CORRECTIONS SHALL BE RED-LINED AND PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- 3. MECHANICAL CONTRACTOR SHALL MEASURE SYSTEM AIR FLOWS FOR ALL RENOVATED AREAS PRIOR TO DEMOLITION WORK. SUBMIT PRE—CONSTRUCTION AIRFLOW REPORT TO ENGINEER.
- 4. MECHANICAL CONTRACTOR SHALL DOCUMENT INTERIOR CLEANLINESS CONDITION OF RETURN DUCTS AND AIR HANDLING EQUIPMENT SERVING RENOVATED AREAS PRIOR TO DEMOLITION WORK. SUBMIT DIGITAL PHOTOS TO ENGINEER.
- 5. ALL CONCEALED PIPING, NOT READILY REMOVABLE SHALL BE CAPPED BELOW FINISH SURFACES. REMOVE ALL EXISTING EQUIPMENT SUPPORTS NOT BEING USED.
- 6. GENERAL CONTRACTOR SHALL REPAIR ALL WALL, FLOOR & CEILING OPENINGS FROM DEMOLITION OF MECHANICAL WORK. FINISH SURFACES SHALL BE RESTORED TO MATCH ORIGINAL CONDITION. MECHANICAL CONTRACTOR SHALL TAKE EXTREME CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING SURFACES.
- 7. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AND WASTE MATERIALS OF DEMOLITION & CONSTRUCTION UNLESS DIRECTED OTHERWISE. THE OWNER RESERVES THE RIGHT TO RETAIN ANY ITEM WHETHER NOTED ON PLANS OR NOT.
- 8. A CERTIFIED TECHNICIAN SHALL RECLAIM REFRIGERANTS FROM AIR CONDITIONING EQUIPMENT NOTED TO BE DEMOLISHED. RECLAIM PROCESS & TRANSPORTING TO RECLAIM CENTER SHALL FOLLOW AHRI GUIDELINES.
- 9. BUILDING SYSTEMS SHUTDOWN MECHANICAL CONTRACTOR SHALL COORDINATE WITH OWNER 48 HOURS BEFORE ANY UNAVOIDABLE SYSTEMS SHUTDOWN.
- 10. REFERENCE AND COORDINATE WITH ARCHITECTURAL PLANS FOR CONSTRUCTION PHASING. OWNER WILL OCCUPY THE EAST SIDE OFFICE WHILE THE EXISTING TRUCK BAYS ARE UNDER CONSTRUCTION.

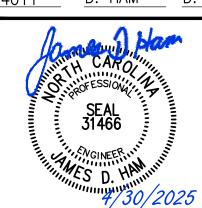
WAYSY ENGINEER

P.O. BOX 11527

GOLDSBORO, NC 27532

TEL: (919) 778-9064

PROJECT NO. PROJECT MGR. DRAWN BY D. HILL



REVISIONS:

# DESC: DATE

DRAWN BY: DJH/SAL PROJECT #: 23018

PHASE:
CONSTRUCTION

SHEET NAME & NUMBER

DOCUMENTS

MECHANICAL DEMO PLAN

MD1.1

DATE

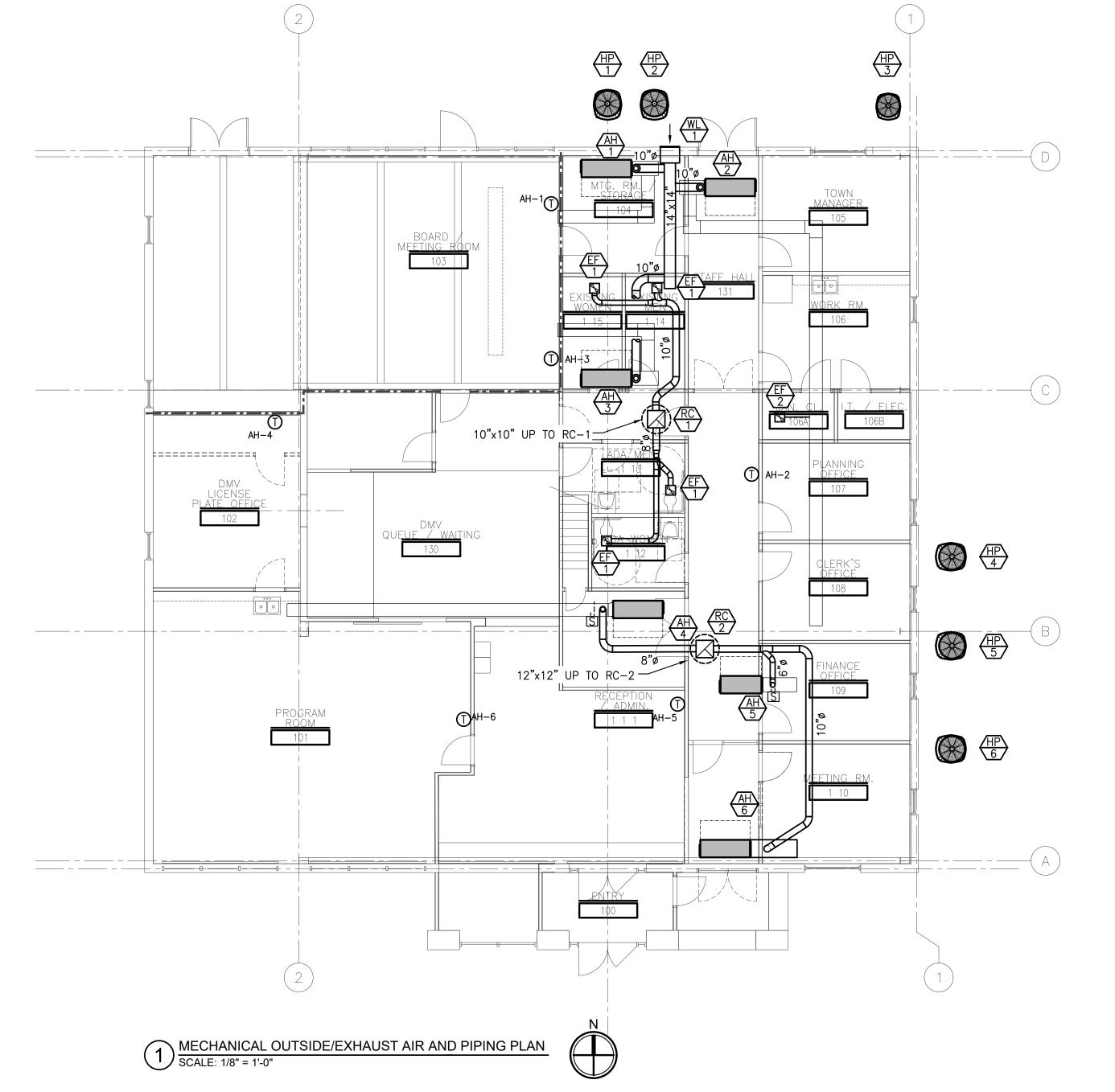
DRAWN BY: DJH/SAL

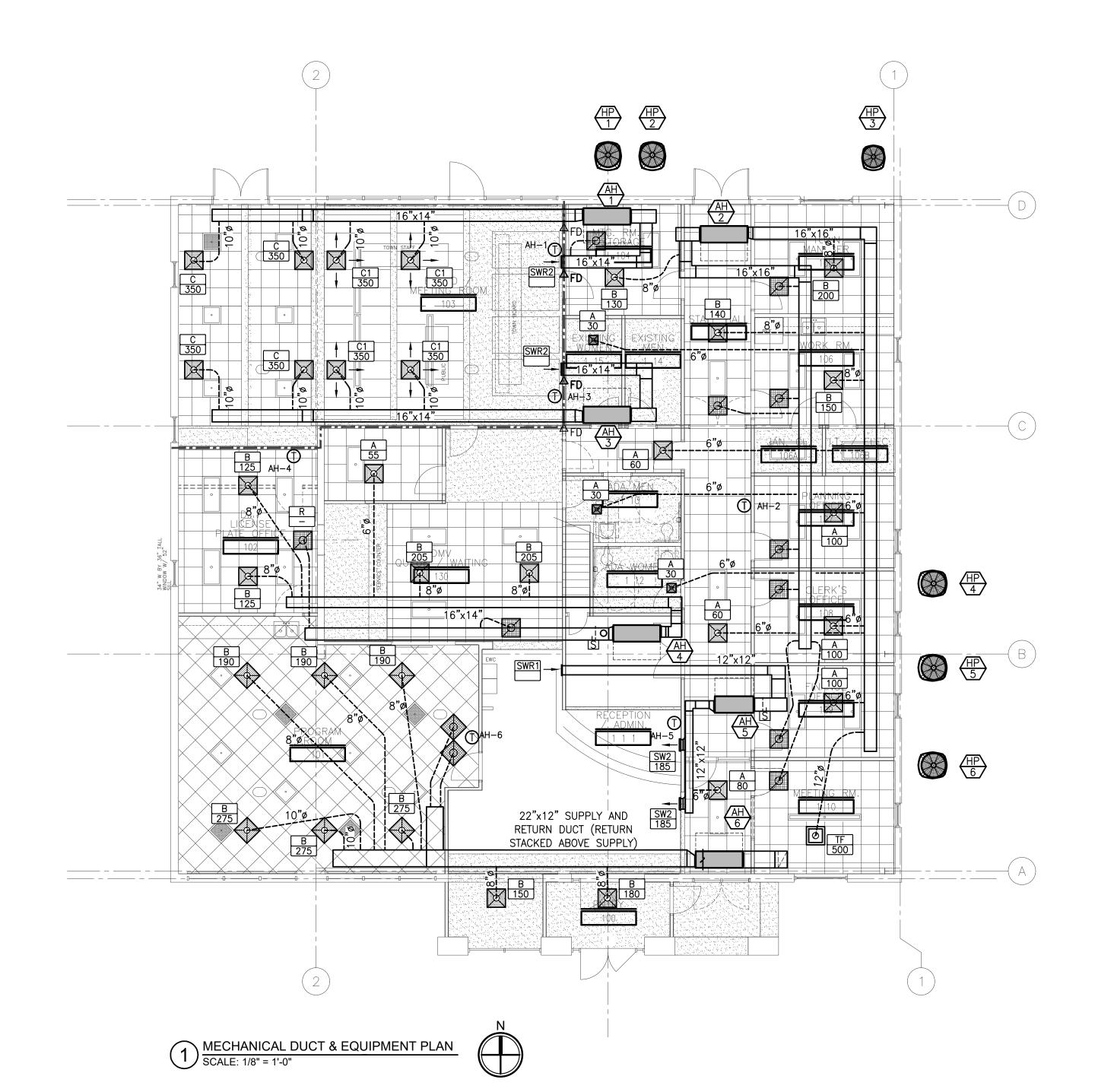
PROJECT #: 23018
ISSUE DATE: 04/30/2025

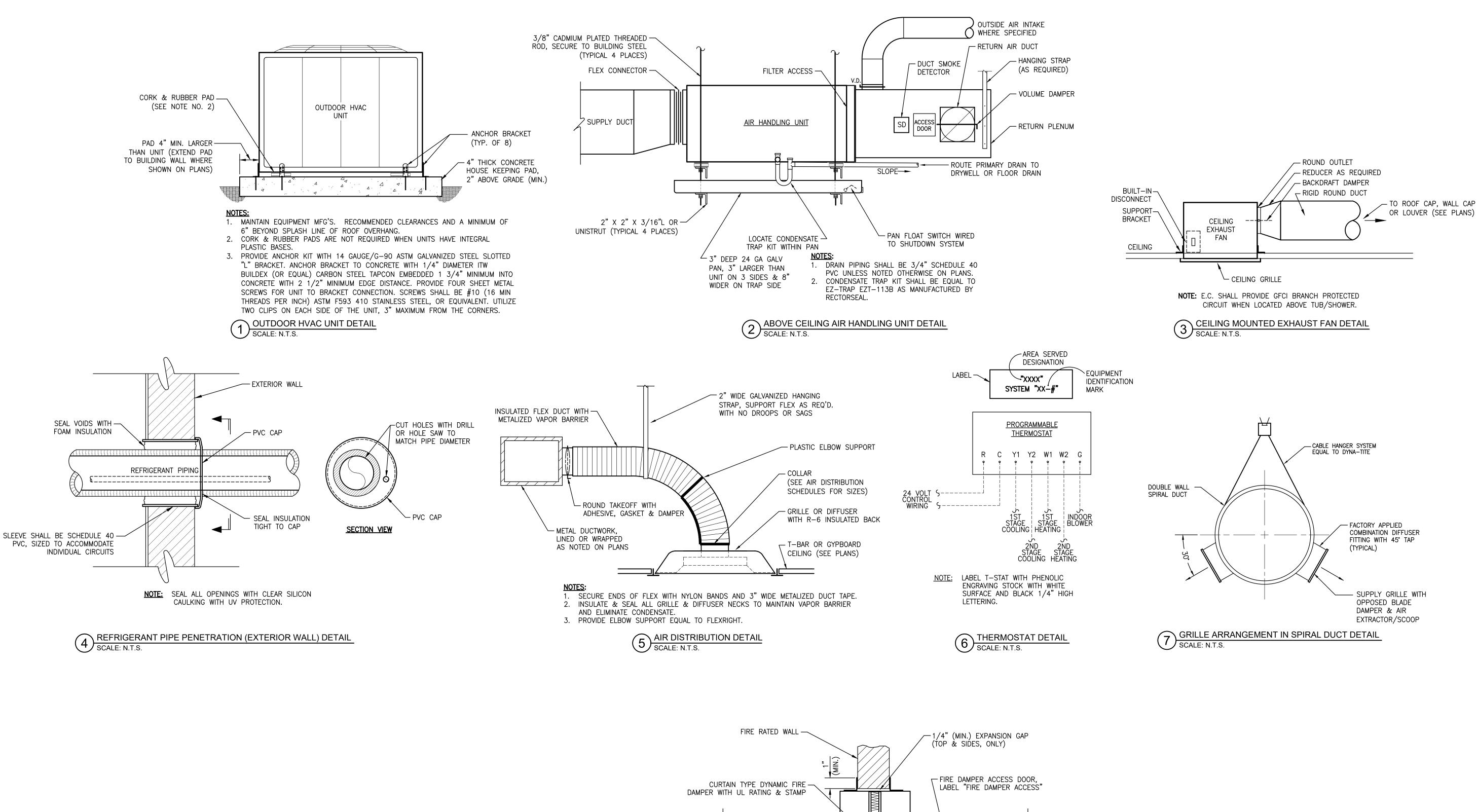
phase: CONSTRUCTION DOCUMENTS

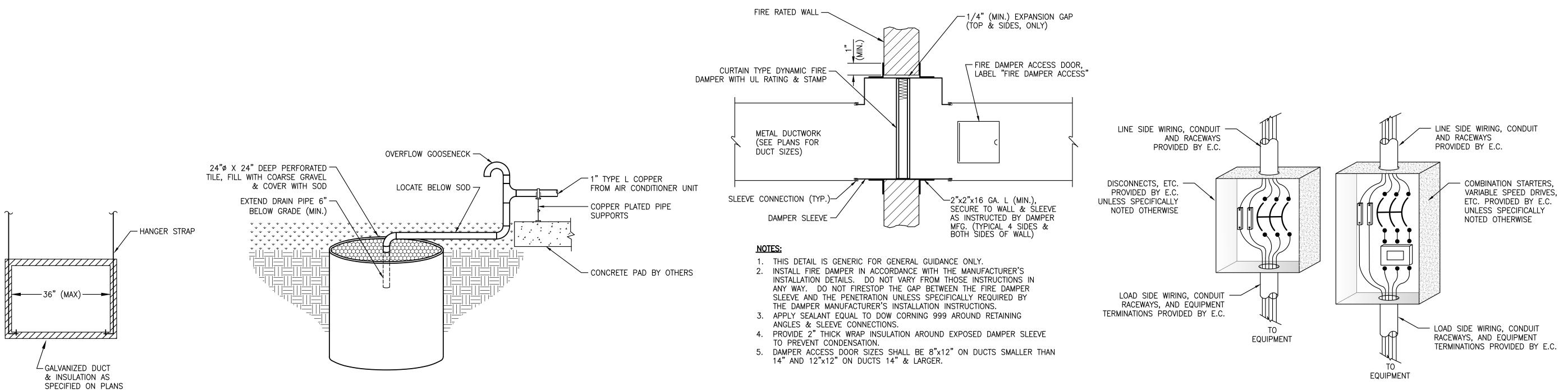
SHEET NAME & NUMBER

MECHANICAL PLAN









8 TRAPEZE HANGER DETAIL SCALE: N.T.S.

9 DRYWELL (FRENCH DRAIN) DETAIL SCALE: N.T.S.

VERTICAL FIRE DAMPER - STYLE B DETAIL SCALE: N.T.S.

INTREPID

ARCHITECTURE

114 E. 3rd STREET; GREENVILLE, NC 27858

2855

DRIVE,

NC LIC #: C-1132

DATE

www.INTREPIDarchitecture.com

**IOWN** 

P.O. BOX 11527

**REVISIONS:** 

# DESC:

DRAWN BY: DJH/SAL

ISSUE DATE: 04/30/2025

PROJECT #: 23018

CONSTRUCTION

SHEET NAME & NUMBER

MECHANICAL DETAILS

DOCUMENTS

PHASE:

ELECTRICAL CONNECTION COORDINATION SCALE: N.T.S.

GOLDSBORO, NC 27532 TEL: **(919) 778–9064** 

<u>224011</u> D. HAM

PROJECT NO. PROJECT MGR. DRAWN BY

p:1.252.270.5330

<b>CENTOCH</b>		MECHANICAL D	UCT INSULATION TABL	E		
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	R-VALUE	THICKNESS	REMARKS
	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
RIGID METAL SUPPLY DUCT	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS BLANKET	FSK	R-8.0	3"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
RIGID METAL SUPPLY DUCT	EXPOSED	FIBERGLASS DUCT LINER	_	R-4.0	1"	SUPPLY DUCTS INDICATED AS LINED
	MECHANICAL ROOM	RIGID FIBERGLASS BOARD	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	CONDITIONED SPACE	(NONE REQUIRED)				
RIGID METAL RETURN DUCT	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS BLANKET	FSK	R-8.0	3"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
RIGID METAL OUTSIDE AIR DUCT	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
EXHAUST DUCT	ALL	(NONE REQUIRED)				
ELEVIDLE CURRIY DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
FLEXIBLE SUPPLY DUCT	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-8.0	2 1/2"	
ELEVIDLE DETUDAL DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
FLEXIBLE RETURN DUCT	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-8.0	2 1/2"	
ACOUSTICAL LINER (NOISE ATTENUATION)	AT EACH UNIT	FIBERGLASS DUCT LINER			1/2"	TERMINATE 10' FROM UNIT OR AFTER 1st ELBOW

(U Enleth MECHANICAL PIPING INSULATION TABLE								
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS		
	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION		
REFRIGERATION SUCTION PIPING	UNCONDITIONED SPACE	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION		
	EXTERIOR	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	PROVIDE WITH WHITE UV PROTECTIVE COATING		
A/C CONDENSATE PIPING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	_		
	VENTILATED ATTIC OR CRAWLSPACE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	(NONE REQUIRED FOR EXTERIOR)		

NOTES: ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

MECHANICAL ENERGY SUMMARY MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE:
NC ENERGY CODE (2018) PRESCRIPTIVE ⊠ PERFORMANCE □
· · ·
ASHRAE 90.1 (2016) PRESCRIPTIVE PERFORMANCE
THERMAL ZONE3A
EXTERIOR DESIGN CONDITIONS WINTER DRY BULB 20°F SUMMER DRY BULB 95°F
INTERIOR DESIGN CONDITIONS WINTER DRY BULB 72°F SUMMER DRY BULB 74°F RELATIVE HUMIDITY 50%
BUILDING HEATING LOAD 137 MBH
BUILDING COOLING LOAD 21 TONS
MECHANICAL CONDITIONING SYSTEM UNITARY
DESCRIPTION OF UNIT HEATING EFFICIENCY COOLING EFFICIENCY HEAT OUTPUT OF UNIT COOLING OUTPUT OF UNIT  SPLIT SYSTEM HEAT PUMP  8.5 HSPF  14.3 SEER2  324 MBH  21.5 TONS
LIST EQUIPMENT EFFICIENCIES SEE MECHANICAL SCHEDULES

ENGIN BERRIMA	EQUAL MANUFACTURE	ERS
DESCRIPTION	SPECIFIED MANUFACTURER	ACCEPTABLE SUBSTITUTIONS
FANS	GREENHECK	LOREN COOK, CAPTIVE—AIRE, AEROVENT
ROOF CAPS & VENTILATORS	GREENHECK	LOREN COOK AND TWIN CITY FAN
UNIT HEATERS	MARKEL	MODINE, TRANE, AND REZNOR
LOUVERS	GREENHECK	RUSKIN AND NAILOR
INLINE INDUCED FLOW	GREENHECK	YORK AND LOREN COOK
LARGE DIAMETER CEILING FAN	GREENHECK	HUNTER AND BIG ASS FANS

NOTE: SPECIFIED PRODUCTS INDICATE QUALITY AND OPTIONS REQUIRED FOR THIS PROJECT. EQUAL PRODUCTS/MANUFACTURERS ARE ACCEPTABLE.

(CE	Tech					HEAT	PUN	ЛР (INDO	OR UNIT) S	SCHEDU	LE					
MARK		SUPPL	Y FAN		NOMINA	COOL	ING C	APACITY	AUX. HEAT	VOLT/PH	FLA	MCA	MOCP	DEE MANE	REF. MODEL	WEIGHT
INITALA	SA CFM	OA CFM		MTR HP	EAT(DB/W	<u> </u>		SEN CAP	<b>©</b> 240V	,	5	IVICA	IWIOCI			
AH-1	1400	224	0.5"	3/4	77°/66°			36.7 MBH	9.6 KW	240/1ø	46	59	60A	TRANE	5TEM4D06	170 LBS.
AH-2	1750	213	0.5"	3/4	76°/64°	53	MBH	45 MBH	9.6 KW	240/1ø	46	59	60A	TRANE	5TEM4D06	170 LBS.
AH-3	1400	244	0.5"	3/4	77°/66°	48		36.7 MBH	9.6 KW	240/1ø	46	59	60A	TRANE	5TEM4D06	170 LBS.
AH-4	875	120	0.5"	1/3	75°/70°	31	MBH	24.5 MBH	7.7 KW	240/1ø	38	45	45A	TRANE	5TEM6D04	170 LBS.
AH-5	700	65	0.5"	1/3	75°/63°	23.6	MBH	18.1 MBH	4.8 KW	240/1ø	23	28	30A	TRANE	5TEM4B02	120 LBS.
AH-6	1400	250	0.5"	3/4	76°/65°	48	MBH	36.7 MBH	9.6 KW	240/1ø	46	59	60A	TRANE	5TEM4D06	170 LBS.
										,						

1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:

- SINGLE POINT WIRING CONNECTION
- TXV MATCHING CONDENSER CAPACITY
   7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKOUT FUNCTION
- ECM FAN MOTORS MERV 8 FILTERS

<b>CE</b>	<b>Tech</b>		HEAT	PUM	1P (O	UTDC	OR	UNIT) S	SCHE	DULE		
MARK	EAT(DB)	NOM CAP	VOLT/PH	FLA	MCA	МОСР	MIN.	SEER2	HSPF	REF. MANF.	REF. MODEL	WEIGHT
HP-1	95°	4.0 TONS	240/1ø	21	25	40A	14.3	SEER2	8.5	TRANE	5TWR4048	300 LBS.
HP-2	95°	5.0 TONS	240/1ø	25	33	50A	14.3	SEER2	8.5	TRANE	5TWR4060	240 LBS.
HP-3	95°	4.0 TONS	240/1ø	21	25	40A	14.3	SEER2	8.5	TRANE	5TWR4048	300 LBS.
HP-4	95°	2.5 TONS	240/1ø	14	16	25A	14.3	SEER2	8.5	TRANE	5TWR5030	240 LBS.
HP-5	95°	2.0 TONS	240/1ø	10	13	20A	14.3	SEER2	8.5	TRANE	5TWR4024	210 LBS.
HP-6	95°	4.0 TONS	240/1ø	21	25	40A	14.3	SEER2	8.5	TRANE	5TWR4048	300 LBS.

NOTES:

1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:

- 5 YEAR COMPRESSOR WARRANTY - COMPRESSOR ANTI SHORT CYCLE DELAY
- CRANKCASE HEATERS
- HIGH AND LOW PRESSURE SWITCHES
- OUTDOOR THERMOSTAT - LOW AMBIENT CONTROL TO 55°
- EXTREME CONDITION MOUNT KIT
   M.C. SHALL COORDINATE PRODUCT SPECIFIC ELECTRICAL REQUIREMENTS WITH E.C..

<b>ME</b>	<b>Tech</b>			Ε>	KHAUST	FAN SCHED	ULE				
MARK	TYPE	CFM	ESP	WATTS	VOLT/PH	REF. MANF.	REF. MODEL	*SONES	WEIGHT	NOTES	CONTROL
EF-1	CEILING	70	0.25"	17	120/1ø	GREENHECK	SP-A90	0.4	12 LBS	1,2	_
EF-2	CEILING	109	0.25"	23	120/1ø	GREENHECK	SP-A125	0.6	17 LBS	1,2	_

NOTES:

1. PROVIDE WITH ROOF CAP, WALL CAP OR LOUVER AS SHOWN ON PLANS.

- PROVIDE WITH BACKDRAFT DAMPER.
- PROVIDE WITH BACKDRAFT DAMPER.
   PROVIDE WITH ELEC. COMMUTATED MOTOR WITH POTENTIOMETER INTERNALLY MOUNTED.
   PROVIDE WITH ELEC. COMMUTATED MOTOR AND REMOTE POTENTIOMETER.
   SONE LEVELS SHALL NOT EXCEED LEVELS LISTED IN SCHEDULE.

   ESP STATIC PRESSURE EXTERNAL TO THE FAN ASSEMBLY
   TSP TOTAL STATIC PRESSURE INCLUDING FAN ACCESSORIES
- \*\* SPARK RESISTANT

## **CONTROL TYPE DESCRIPTION:**

- A. INTERLOCK WITH ROOM LIGHTING CONTROL BY EC.
- B. SEPARATE WALL MOUNTED FAN SWITCH BY EC. C. WALL MOUNTED T-STAT FURNISHED WITH FAN, INSTALLED BY EC.
- D. WALL MOUNTED SPEED CONTROL FURNISHED WITH FAN, INSTALLED BY EC.

<b>M</b>	Nech			LOUVE	R SCHEDUL	<u> </u>			
MARK	SERVICE	SIZE	CFM	SP	FREE AREA	MATERIAL	REF. MANF.	REF. MODEL	NOTES
WL-1	INTAKE	24"Wx24"H	-	0.05"	3.27 SQ FT	ALUMINUM	GREENHECK	EHH-4	1,2,3

PROVIDE WITH BIRD SCREEN, EXTENDED SILL & 2 COATS OF KYNAR FINISH (AAMA 2605).
 SUBMIT LOUVER TYPE & COLOR PALLET TO ARCHITECT FOR COLOR SELECTION.
 PROVIDE WITH BACKDRAFT DAMPER AND 120V OPERATOR CONTROLLED BY GAS DETECTION PANEL.

CE	nTech				AIR	DIST	RIBUTIO	N SCHE	DULE			
MARK	CFM RANGE	TYPE	MNT.	SIZE	NECK	THROW	MAX NC	PATTERN	DIRECTION	MAT'L	FINISH	REMARKS
Α	0-100	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	6"x6"x6"ø	15'	15	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2x2 PANEL
В	100-200	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	9"x9"x8"ø	20'	15	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL
С	200-400	LOUVERED FACE SUPPLY DIFFUSER			12"x12"x10"ø	24'	20	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL
C1	200-400	LOUVERED FACE SUPPLY DIFFUSER			12"x12"x10"ø	24'	20	3-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL
D	400-600	LOUVERED FACE SUPPLY DIFFUSER			12"x12"x12"ø	27'	30	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL
SAA	0-40	LOUVERED FACE SUPPLY DIFFUSER		12"X12"		7'	15	4-WAY	HORZ	ALUM.	WHITE	SURFACE MOUNTED BEVELED BORDER
SA	0-100	LOUVERED FACE SUPPLY DIFFUSER		12"X12"	6"x6"x6"ø	9'	15	4-WAY	HORZ	ALUM.	WHITE	SURFACE MOUNTED BEVELED BORDER
SB	100-200	LOUVERED FACE SUPPLY DIFFUSER		<u>12"X12"</u>		13'	15	4-WAY	HORZ	ALUM.	WHITE	SURFACE MOUNTED BEVELED BORDER
SC	200-400	LOUVERED FACE SUPPLY DIFFUSER			12"x12"x10"ø	18'	20	4-WAY	HORZ	ALUM.	WHITE	SURFACE MOUNTED BEVELED BORDER
R	0-600	RETURN 1/2" CUBE FACE			6"ø TO 12"ø	-	_	_		ALUM.	MILL	
SWR1	0-700	LOUVERED SIDEWALL RETURN		18"x14"	_	-	_	_		STEEL	WHITE	3/4" HORIZONTAL FACE BARS, 45 DEG DEFLECTION
SWR2	0-1400	LOUVERED SIDEWALL RETURN		20"x24"	_		_	_		STEEL	WHITE	3/4" HORIZONTAL FACE BARS, 45 DEG DEFLECTION
VC	200-500	THERMAL DIFFUSER HEATING/COOLING	LAY-IN	24"x24"	12"ø	12'	23	4-WAY	HORZ	ALUM.	WHITE	
SW1		SPIRAL DUCT SIDEWALL SUPPLY GRILLE	DUCT	12"x8"	12"x8"	13'	18	DBL DFL	HORZ	ALUM.	WHITE	1/2" SPACING, VERTICAL FACE BARS, DOUBLE DEF. OPPOSED BLADE DAMPER
SW2	0-300	SIDEWALL SUPPLY GRILLE	WALL	14"x6"	14"x6"	13'	20	DBL DFL	HORZ	ALUM.	WHITE	1/2" SPACING, VERTICAL FACE BARS, DOUBLE DEFLECTION

NOTES:

1. VERIFY AIR DISTRIBUTION TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.

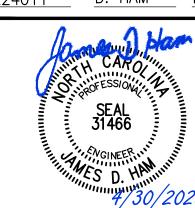
2. AIR THROWS BASED ON 50 FPM.



114 E. 3rd STREET; GREENVILLE, NC 27858 p:1.252.270.5330 www.INTREPIDarchitecture.com



PROJECT NO. PROJECT MGR. DRAWN BY D. HILL



REVISIONS: DATE # DESC:

DRAWN BY: DJH/SAL PROJECT #: 23018 ISSUE DATE: 04/30/2025

PHASE: CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

MECHANICAL SCHEDULES

### MECHANICAL NOTES

- . MECHANICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE OPERATING MECHANICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A COMPLETE AND OPERATING SYSTEM.
- 2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF HVAC INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. THE EXACT LOCATION AND DETAILS OF EQUIPMENT MAY REQUIRE DEVIATIONS FROM PLANS AS THEY ARE DIAGRAMMATIC.
- 3. ALL WORK SHALL COMPLY WITH 2018 NC MECHANICAL CODE, LOCAL ORDINANCES, AS WELL AS FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- 4. PROVIDE PRODUCT SUBMITTALS FOR ALL EQUIPMENT INCLUDING EFFICIENCY, PERFORMANCE DATA, DIMENSIONAL DATA, FINISHES, ELECTRICAL REQUIREMENTS ETC. EQUIPMENT SHALL MEET THE PERFORMANCE, QUALITY AND INTENT OF SCHEDULED EQUIPMENT AND INCLUDE ALL OPTIONS AS LISTED IN SCHEDULES.
- 5. BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, MECHANICAL CONTRACTOR SHALL REVIEW, STAMP, AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. BY APPROVAL AND SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ENGINEER, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED AND CHECKED THE INFORMATION WITHIN THE SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE ON SUBMITTAL OF ANY DEVIATIONS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS REQUIREMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS OR OTHER SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND SUCH DEVIATION HAS BEEN APPROVED IN WRITING. ALL OPTIONS AND ACCESSORIES SHALL BE CLEARLY MARKED ON THE CUTSHEETS.
- 6. COORDINATE ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH THE ELECTRICAL SUBCONTRACTOR. WHERE ELECTRICAL REQUIREMENTS OF EQUIPMENT PROVIDED DIFFERS FROM THE SCHEDULED EQUIPMENT THAT REQUIRE COST RELATED CHANGES IN THE ELECTRICAL, CONTACT THE ENGINEER.
- 7. THE CITED EXAMPLES OF PRODUCTS ARE USED ONLY TO DENOTE THE QUALITY STANDARD OF PRODUCT DESIRED AND THEY DO NOT RESTRICT BIDDERS TO A SPECIFIC BRAND, MAKE, MANUFACTURER OR SPECIFIC NAME; THAT THEY ARE USED ONLY TO SET FORTH AND CONVEY TO BIDDERS THE GENERAL STYLE, TYPE, CHARACTER AND QUALITY OF PRODUCT DESIRED; AND THAT EQUIVALENT PRODUCTS WILL BE ACCEPTABLE.
- 8. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- 9. POWER WIRING, DISCONNECTS & STARTERS NOT FURNISHED WITH HVAC EQUIPMENT AND FINAL CONNECTIONS SHALL BE BY THE E.C.
- 10. CONTROL WIRING, RELAYS AND INTERLOCKING DEVICES SHALL BE PROVIDED BY THE M.C.
- 11. UL LISTED DUCT SMOKE DETECTORS & RAIL SWITCHES SHALL BE FURNISHED & WIRED BY THE FIRE ALARM CONTRACTOR AND DUCT SMOKE DETECTORS INSTALLED BY THE M.C.. RAIL SWITCHES SHALL BE REQUIRED WHERE DETECTORS ARE NOT READILY ACCESSIBLE. FIRE ALARM AHU SHUT DOWN CIRCUITS SHALL BE WIRED FROM THE FACP TO A TERMINATION POINT, ADJACENT TO THE FACP BY THE FIRE ALARM CONTRACTOR. AHU CONTROL WIRING FROM THE TERMINATION POINT TO THE EQUIPMENT SHALL BE BY THE M.C.. THE FIRE ALARM CONTRACTOR SHALL TEST ALL SMOKE DETECTORS.
- 12. UL LISTED DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED & TESTED BY THE M.C.. THE M.C. SHALL PROVIDE REMOTE ALARM/TEST STATION FOR EACH DUCT SMOKE DETECTOR.
- 13. TEMPERATURE CONTROLS FOR EACH HEATING—COOLING SYSTEM SHALL CONSIST OF AN ELECTRONIC PROGRAMMABLE HEATING—COOLING THERMOSTAT WITH HEAT—OFF—COOL—AUTO SYSTEM SWITCH & AUTO—ON FAN SWITCH. THERMOSTAT SHALL HAVE WIFI ACCESS. MOUNT THERMOSTATS 48—INCHES A.F.F.
- 14. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS. PROVIDE CLEARANCE AS RECOMMENDED BY THE MANUFACTURER
- 15. PROVIDE FLEX CONNECTORS AT ALL DUCT TO EQUIPMENT CONNECTIONS NOT HAVING INTERNALLY ISOLATED FANS.
- 16. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL GROUND & FLOOR MOUNTED EQUIPMENT. UNLESS NOTED OTHERWISE ALL PADS SHALL BE 4" THICK & 4" LARGER THAN EQUIPMENT ON ALL SIDES. PADS SHALL BE 3000 PSI CONCRETE WITH #4 REBAR 6" ON CENTER BOTH DIRECTIONS.
- 17. EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEATING AND COOLING AND SHALL NOT BE RUN EXCEPT FOR TESTING AND BALANCING UNTIL THE BUILDING IS DRIED IN, CLEAN AND ALL FINISHING WITHIN THE SPACE IS COMPLETE. OPERATING THE SYSTEM PRIOR TO HAVING A CLEAN BUILDING WILL REQUIRE THE SYSTEMS TO BE CLEANED TO LIKE NEW CONDITION.
- 18. CONTRACTOR SHALL BALANCE AIR SYSTEM OUTLETS TO QUANTITIES INDICATED WITHIN ±10% AS NOTED ON PLANS IN ACCORDANCE WITH PROCEDURES CONTAINED IN AABC OR SMACNA, AND PROVIDE CERTIFIED TYPE WRITTEN TAB REPORT WITH O&M MANUALS. SUPPLY, RETURN, AND EXHAUST FANS SHALL BE PLUS 10% OR MINUS 0%. AIR FLOW AND STATIC PRESSURE SHALL BE MEASURED AND RECORDED FOR ALL OUTLETS. TAB FIELD SUPERVISOR AND TECHNICIAN SHALL BE CERTIFIED BY AABC. REPORT ANY DEFICIENCIES DISCOVERED BEFORE OR DURING TAB PROCEDURES. VERIFY LEAKAGE AND PRESSURE TEST HAVE BEEN SATISFACTORILY COMPLETED. PROVIDE TYPE WRITTEN REPORT WITH O&M MANUALS.
- 19. ALL EQUIPMENT & SYSTEMS SHALL BE WASHED, MECHANICAL AREAS CLEANED AND PAINTED SURFACES TOUCHED UP TO MATCH FACTORY APPLIED FINISHES. AIR HANDLERS SHALL BE VACUUMED AND WIPED CLEAN ON THE INSIDE PRIOR TO TURNING THE PROJECT OVER TO THE OWNER. ENTIRE SYSTEMS INCLUDING DUCTWORK THAT HAVE NOT BEEN ADEQUATELY PROTECTED DURING INSTALLATION WILL REQUIRE ADDITIONAL CLEANING AT THE END OF THE PROJECT.
- 20. CONTRACTOR SHALL COVER EACH RETURN OPENING LOCATION & EACH AIR HANDLER FILTER RACK WITH MERV 8 PLEATED FILTER MEDIA BEFORE STARTUP OF MECHANICAL SYSTEMS. CONTRACTOR SHALL ALSO INSTALL A NEW SET OF MERV 8 PLEATED FILTERS AT EACH PERMANENT FILTER LOCATION BEFORE TURNING BUILDING OVER TO OWNER.
- 21. CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL AS REQUIRED BY THE NC ENERGY CODE 503.2.9.2 INCLUDING EQUIPMENT BASIC DATA, CONTROL INFORMATION, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS.
- 22. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY. EXTENDED GUARANTEES ON EQUIPMENT SHALL BE AS PUBLISHED ON MANUFACTURER'S EXTENDED WARRANTIES.

## **DUCT SYSTEMS:**

- 1. ALL DUCT INSTALLATION SHALL BE COORDINATED SUCH THAT DUCT DOES NOT INTERFERE WITH FUTURE REMOVAL OF CEILING TILES, WATER HEATERS, OR LIGHT FIXTURES. DUCT SHALL BE A MINIMUM OF 6" FROM LIGHT FIXTURES AND CEILING TILES.
- 2. FABRICATE AND INSTALL DUCT PER SMACNA STANDARDS FOR 3-INCH WC UPSTREAM OF AIR TERMINALS AND 2-INCH WC FOR ALL OTHER DUCTWORK. FOR INTERIOR LOCATIONS, USE GALVANIZED METAL MINIMUM G-60 (26 GAUGE MINIMUM). SEAL ALL LONGITUDINAL AND TRAVERSE JOINTS AS REQUIRED BY CURRENT SMACNA AND ENERGY CODE STANDARDS FOR MINIMUM OF WC INDICATED ABOVE. SPACING SHALL BE PROVIDED BETWEEN FITTINGS TO REDUCE SYSTEM AFFECT.
- 3. WHERE RECTANGULAR DUCT IS INDICATED, RADIUS ELBOWS & TEES SHALL HAVE CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. SQUARE ELBOWS SHALL INCLUDE TURNING VANES. NO VANES SHALL BE REMOVED FROM THE VANE RUNNER. VANES WITH TRAILING EDGES SHALL NOT BE USED. RECTANGULAR RADIUS ELBOWS WITH RADIUS/WIDTH GREATER THAN 1 AND RADIUS THROAT ARE ALLOWED. ALL DUCT JOINTS, SEAMS & BRANCH TAKEOFFS SHALL BE SEALED AIR—TIGHT WITH DUCT SEALANT EQUAL TO HARDCAST IRON—GRIP. ROLLED FORM FLANGE TYPE JOINTS WITH GASKETS BOLTED CORNERS AND CLIPS MAY BE USED PROVIDING AN AIR TIGHT SEAL AND REINFORCING.
- 4. WHERE ROUND OR FLAT OVAL DUCT IS INDICATED, DUCT SHALL BE SPIRAL LOCKSEAM WITH EPDM GASKETED FITTINGS. LARGE FLAT OVAL SIZES MAY USE BOLTED AND GASKETED ROLLED FLANGE TYPE JOINTS.
- 5. WHERE DOUBLE WALL SPIRAL DUCT IS INDICATED THE DUCT SHALL BE DOUBLE WALL WITH FACTORY INSTALLED GASKET FITTINGS. OUTER SHELL SHALL BE PAINT GRIP GALVANIZED (ASTM A653) STEEL. INNER SHELL SHALL BE PERFORATED GALVANIZED STEEL INSULATION SHALL BE 1—INCH THICK 1 LB. DENSITY WITH MIN. R-VALUE OF 3.8
- 6. PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS & CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS, ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY SHIFT.
- 7. ROUND RUNOUTS ON RECTANGULAR DUCTS SHALL HAVE SIDE TAKEOFFS WITH GASKET & DAMPER, RECTANGULAR BRANCH DUCTS SHALL HAVE 45 DEGREE TAPS WITH AIR EXTRACTOR AND ALL TEES SHALL HAVE SPLITTER DAMPERS. PROVIDE ANY OTHER DEVICES REQUIRED TO BALANCE AIR SYSTEM.
- 8. FLEX DUCT SHALL BE FACTORY INSULATED, HAVE ACOUSTICAL INNER CORE AND HAVE METALIZED VAPOR BARRIER. SEAL FLEX TO HARD CONNECTIONS WITH MASTIC. BOTH ENDS SHALL BE SECURED WITH NYLON BANDS AND METALIZED DUCT TAPE PER MFG'S RECOMMENDATIONS AND IN ACCORDANCE WITH U.L. 181B. BEND RADIUS SHALL NOT BE LESS THAN ONE DUCT DIAMETER. PROVIDE "FLEXFLOW ELBOW" SUPPORT BY THERMAFLEX, OR EQUAL, AT EACH DIFFUSER. MAX LENGTH OF FLEX SHALL BE 6 FEET. SUSPEND FLEXIBLE DUCTS WITH BANDS 1-1/2 INCHES WIDE OR WIDER AND SPACED A MAXIMUM OF 48 INCHES APART. MAXIMUM CENTERLINE SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2 INCH PER 12 INCHES. DO NOT BEND DUCTS ACROSS SHARP CORNERS. AVOID CONTACT WITH METAL FIXTURES, CEILING GRIDS, WATER LINES, PIPES, OR CONDUITS.
- 9. RIGID ROUND AND RECTANGULAR DUCT SHALL BE EXTERNALLY INSULATED WITH 3/4 LB. DENSITY FIBERGLASS BLANKET WITH FSK VAPOR BARRIER. STAPLE AND SEAL ALL JOINTS WITH 3-INCH WIDE METALIZED DUCT TAPE EQUAL TO SHURFLEX SF-683.
- 10. PROVIDE 1/2-INCH, 1.5 LB. DENSITY ACOUSTICAL LINER AT EACH A/C UNIT SUPPLY AND RETURN CONNECTION FOR SOUND ATTENUATION. TERMINATE LINER AT 10-FT. FROM UNIT, AT FIRST ELBOW OR AS NOTED ON PLANS. LINER SHALL BE INSTALLED WITH PINS & ADHESIVE AS RECOMMENDED BY MFG. & SMACNA. DUCT SIZES ON PLANS ARE METAL DIMENSIONS AND INCLUDE ALLOWANCES FOR LINER. DUCT SHALL BE WRAPPED WITH INSULATION IN ADDITION TO ACOUSTICAL LINER.
- 11. RECTANGULAR DUCT INDICATED AS BEING BE INTERNALLY LINED SHALL USE 1—INCH THICK, 1.5 LB. DENSITY LINER EQUAL TO CERTAINTEED TOUGHGARD. LINER SHALL MEET REQUIREMENTS OF ASTM C 665 AND ASTM G 21 & G 22 FOR RESISTANCE TO FUNGAL AND BACTERIAL ATTACK. LINER SHALL BE INSTALLED WITH PINS & ADHESIVE AS RECOMMENDED BY MFG. & SMACNA. DUCT SIZES ON PLANS ARE METAL DIMENSIONS AND INCLUDE ALLOWANCES FOR LINER.
- 12. INSULATE & SEAL ALL GRILLE & DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATION. PROVIDE SUPPLY DIFFUSERS WITH EITHER MOLDED FIBERGLASS BACK INSULATION OR A SEPARATE INSULATION BLANKET.
- 13. ALL HARD DUCT SHALL MAINTAIN A MINIMUM CLEARANCE OF 8" ABOVE THE TOP OF CEILING GRID, UNLESS NOTED OTHERWISE.

# PIPE SYSTEMS:

- 1. PROVIDE SUBMITTALS FOR ALL PIPING SYSTEMS INCLUDING PIPE, FITTINGS, VALVES, HANGERS, BUILDING ATTACHMENTS, ETC. INCLUDE WELDING CERTIFICATES WHERE PIPE BEING PROVIDED IS WELDED OR WELDED SUPPORTS ARE BEING PROVIDED.
- 2. ALL PIPING SHALL BE SUPPORTED & SECURED WITH SUITABLE HANGERS, STRAPS OR PIPE STANDS. SUPPORT WITH NO DROOPS OR SAGS. ALL HANGERS AND ATTACHMENTS SHALL BE PLATED, GALVANIZED OR PAINTED. PROVIDE ISOLATION ON PIPING OF DISSIMILAR MATERIALS.
- 3. CONDENSATE TRAPS FOR ALL AC UNITS SHALL BE SIZED AS RECOMMENDED BY UNIT MANUFACTURER'S. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC ROUTED TO DRYWELL OR STORM DRAIN. INSULATE WITH FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION.
- 4. REFRIGERANT PIPING SHALL BE TYPE ACR COPPER WITH SILVER SOLDERED JOINTS. INSTALL PER EQUIPMENT INSTALLATION INSTRUCTIONS. INSULATION SHALL BE FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION. PROTECT EXTERIOR INSULATION FROM SOLAR DETERIORATION WITH UV COATING. ROUTE REFRIGERANT PIPING ABOVE CEILINGS AND WITHIN DUCT CHASES. PIPING TO PENETRATE ROOF ADJACENT TO CONDENSING UNIT.

D RECTANGULAR DUCT D RECTANGULAR DUCT WITH LINER D ROUND DUCT IBLE DUCT SET UP IN DIRECTION OF AIR FLOW SET DOWN IN DIRECTION OF AIR FLO ELBOW WITH TURNING VANES IBLE CONNECTION JAL VOLUME DAMPER DR OPERATED DAMPER SES DOOR VERTICAL OR HORIZONTAL NICH DUCT WITH 45° TAP
D RECTANGULAR DUCT WITH LINER D ROUND DUCT IBLE DUCT SET UP IN DIRECTION OF AIR FLOW SET DOWN IN DIRECTION OF AIR FLO ELBOW WITH TURNING VANES IBLE CONNECTION JAL VOLUME DAMPER OR OPERATED DAMPER KE DETECTOR WITH ACCESS DOOR ESS DOOR VERTICAL OR HORIZONTAL
D ROUND DUCT IBLE DUCT SET UP IN DIRECTION OF AIR FLOW SET DOWN IN DIRECTION OF AIR FLO ELBOW WITH TURNING VANES IBLE CONNECTION JAL VOLUME DAMPER OR OPERATED DAMPER KE DETECTOR WITH ACCESS DOOR ESS DOOR VERTICAL OR HORIZONTAL
IBLE DUCT SET UP IN DIRECTION OF AIR FLOW SET DOWN IN DIRECTION OF AIR FLO ELBOW WITH TURNING VANES IBLE CONNECTION JAL VOLUME DAMPER OR OPERATED DAMPER KE DETECTOR WITH ACCESS DOOR ESS DOOR VERTICAL OR HORIZONTAL
SET UP IN DIRECTION OF AIR FLOW SET DOWN IN DIRECTION OF AIR FLO ELBOW WITH TURNING VANES IBLE CONNECTION JAL VOLUME DAMPER OR OPERATED DAMPER KE DETECTOR WITH ACCESS DOOR ESS DOOR VERTICAL OR HORIZONTAL
ELBOW WITH TURNING VANES  IBLE CONNECTION  JAL VOLUME DAMPER  OR OPERATED DAMPER  KE DETECTOR WITH ACCESS DOOR  ESS DOOR VERTICAL OR HORIZONTAL
ELBOW WITH TURNING VANES  IBLE CONNECTION  JAL VOLUME DAMPER  OR OPERATED DAMPER  KE DETECTOR WITH ACCESS DOOR  ESS DOOR VERTICAL OR HORIZONTAL
IBLE CONNECTION  JAL VOLUME DAMPER  OR OPERATED DAMPER  KE DETECTOR WITH ACCESS DOOR  ESS DOOR VERTICAL OR HORIZONTAL
JAL VOLUME DAMPER  OR OPERATED DAMPER  KE DETECTOR WITH ACCESS DOOR  ESS DOOR VERTICAL OR HORIZONTAL
OR OPERATED DAMPER  KE DETECTOR WITH ACCESS DOOR  ESS DOOR VERTICAL OR HORIZONTAL
KE DETECTOR WITH ACCESS DOOR
ESS DOOR VERTICAL OR HORIZONTAL
NCH DUCT WITH 45° TAP
PLY DIFFUSER WITH ROUND NECK
IRN/EXHAUST GRILLE W/ROUND NEC
F CAP, INTAKE
CAP, EXHAUST
HED ROOF JACK, EXHAUST
ERED ROOF EXHAUSTER
NG EXHAUST FAN
. THERMOSTAT FOR SYSTEM NO. 3
DISTRIBUTION MARK "B", 200 CFM
PMENT MARK (SEE SCHEDULES)
DIRECTION ARROW
DENSATE PIPING
RIGERANT PIPING
N
JCER
ERAL CONTRACTOR
IBING CONTRACTOR
HANICAL CONTRACTOR
TRICAL CONTRACTOR
TRONICALLY COMMUTATED OPROCESSOR
/E FINISHED FLOOR
/E FINISHED GRADE



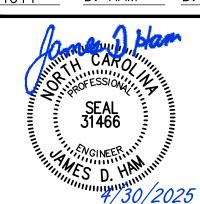
114 E. 3RD STREET; GREENVILLE, NC 27858 p:1.252.270.5330 www.INTREPIDarchitecture.com

AYSVILLE TOWN HALI

P.O. BOX 11527 NC LIC #: C-11 GOLDSBORO, NC 27532

PROJECT NO. PROJECT MGR. DRAWN BY D. HAM D. HILL

TEL: (919) 778-9064



REVISIONS:

# DESC: DATE

DRAWN BY: DJH/SAL PROJECT #: 23018

ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION
DOCUMENTS

SHEET NAME & NUMBER

MECHANICAL NOTES

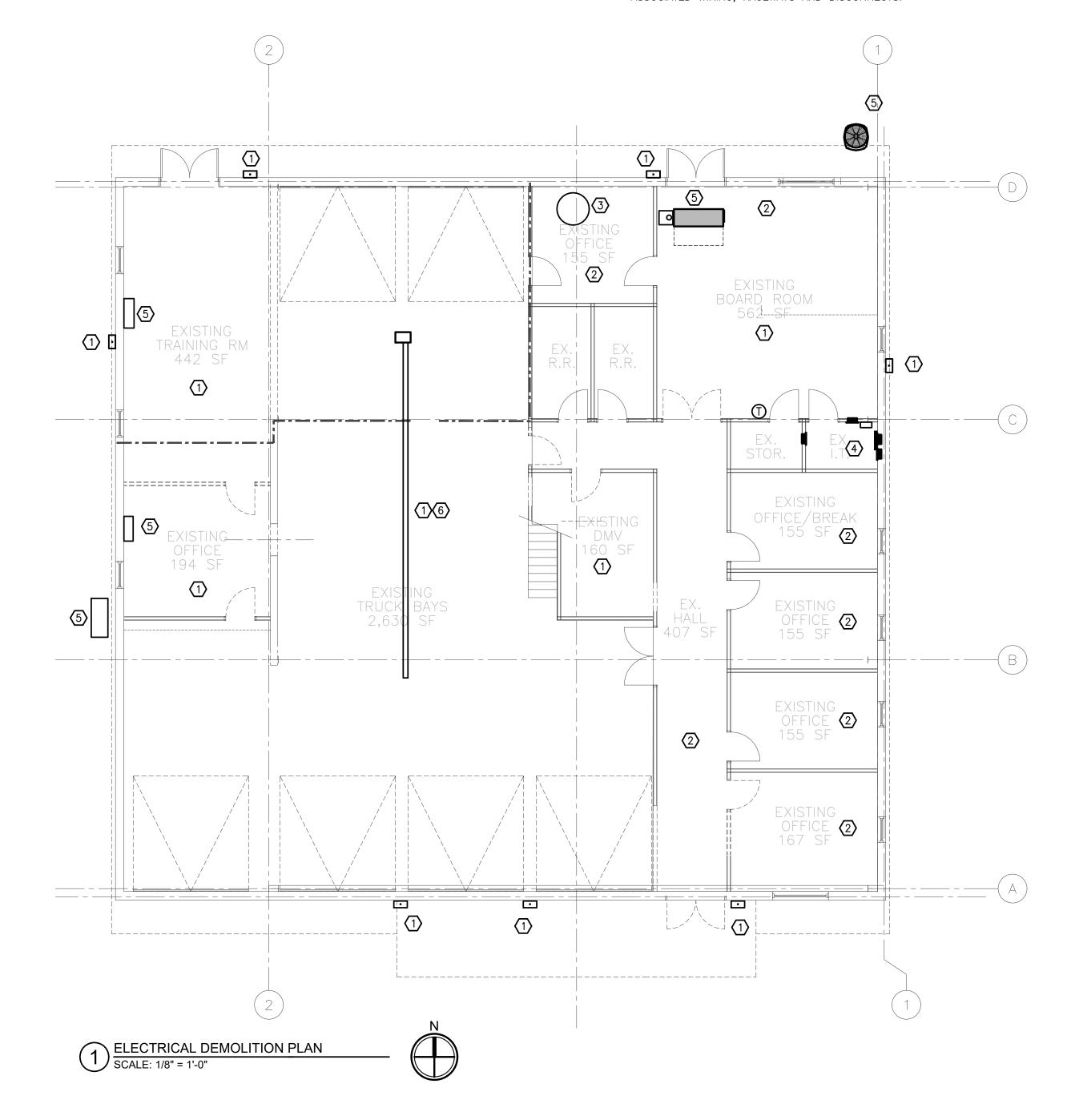
M4.1

## **DEMOLITION NOTES**:

- 1. PRIOR TO SUBMITTING A BID, CONTRACTOR MUST VISIT THE JOB SITE IN ORDER TO HAVE A WORKING KNOWLEDGE OF THE EXISTING SYSTEMS AND CONDITIONS.
- 2. DEMOLITION PLANS SHOW APPROXIMATE LOCATIONS OF EXISTING ELECTRICAL SYSTEMS. ALL ITEMS ENCLOSED IN THE STRUCTURE MAY NOT BE NOTED OR MAY BE SHOWN SCHEMATICALLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TERMINATIONS AND RECONNECTIONS REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM. INFORMATION IS BASED ON NON-DESTRUCTIVE FIELD INVESTIGATION AND/OR EXISTING DRAWING INFORMATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONDITIONS THAT REQUIRE CORRECTIVE ACTION BEYOND THE SCOPE OF THESE PLANS. ALL FIELD CORRECTIONS SHALL BE RED-LINED AND PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- 3. ALL ABANDONED CONCEALED CONDUIT NOT READILY REMOVABLE SHALL BE CAPPED BELOW FINISH SURFACES. REMOVE ALL EXISTING EQUIPMENT AND RACEWAY SUPPORTS NOT USED.
- 4. REMOVE ALL ACCESSIBLE CONDUIT AND DEVICES ON CIRCUITS BEING REMOVED. WIRING SHALL BE REMOVED BACK TO PANELS. BREAKERS SHALL REMAIN AND LABELED AS SPARE. UPDATE PANEL SCHEDULES MATCHING THE MODIFIED CONDITION.
- 5. GENERAL CONTRACTOR SHALL REPAIR ALL WALL, FLOOR & CEILING OPENINGS FROM DEMOLITIONS OF ELECTRICAL WORK. FINISH SURFACES SHALL BE RESTORED TO MATCH ORIGINAL CONDITION. ELECTRICAL CONTRACTOR SHALL TAKE EXTREME CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING SURFACES.
- 6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AND WASTE MATERIAL OF DEMOLITION & CONSTRUCTION UNLESS DIRECTED OTHERWISE. THE OWNER RESERVES THE RIGHT TO RETAIN ANY ITEM WHETHER NOTED ON PLANS OR NOT.
- 7. BUILDING UTILITY SHUTDOWN ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO ANY UNAVOIDABLE UTILITY SHUTDOWN.
- 8. CONTRACTOR SHALL REMOVE ALL ABANDONED CONDUIT AND WIRE.
- 9. REFERENCE AND COORDINATE WITH ARCHITECTURAL PLANS FOR CONSTRUCTION PHASING. OWNER WILL OCCUPY THE EAST SIDE OFFICE WHILE THE EXISTING TRUCK BAYS ARE UNDER CONSTRUCTION.

## DEMOLITION KEYED NOTES " (#)":

- 1. REMOVE ALL RECEPTACLES, JUNCTION BOXES, AND/OR DATA OUTLETS. REMOVE POWER WIRING AND RACEWAY COMPLETELY. REMOVE DATA WIRING BACK TO IT CLOSET. REMOVE LIGHT FIXTURES, SWITCHES, WIRING, AND RACEWAYS.
- 2. REMOVE RECEPTACLE FROM JUNCTION BOX IN SPACE. REPLACE RECEPTACLE WITH NEW DEVICE AND FACEPLATE.
- 3. DISCONNECT WATER HEATER AND REMOVE WIRING AND RACEWAY.
- 4. REMOVE ALL PANELBOARDS AND ASSOCIATED WIRING AND RACEWAYS.
- 5. DISCONNECT CONDENSING UNIT AND ASSOCIATED AIR HANDLER AND REMOVE ALL WIRING, RACEWAYS, AND DISCONNECTS.
- DISCONNECT ALL EQUIPMENT SUCH AS AIR COMPRESSORS, OVERHEAD DOOR MOTORS & CONTROLS, INFRARED HEATER, AND CORD REELS. REMOVE ASSOCIATED WIRING, RACEWAYS AND DISCONNECTS.





114 E. 3rd STREET; GREENVILLE, NC 27858 p:1.252.270.5330 www.INTREPIDarchitecture.com

**MAYSVILLE TOWN HALL** 

P.O. BOX 11527 NC LIC #: C-1132 GOLDSBORO, NC 27532

PROJECT NO. PROJECT MGR. DRAWN BY
224011 D. HAM B. TRENT

TEL: **(919) 778–9064** 



REVISIONS:

# DESC: DATE

DRAWN BY: DJH/SAL

PROJECT #: 23018

ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION
DOCUMENTS

SHEET NAME & NUMBER

ELECTRICAL DEMO PLANS

ED1.01

3. PROVIDE CARD READER FOR BASE BID.

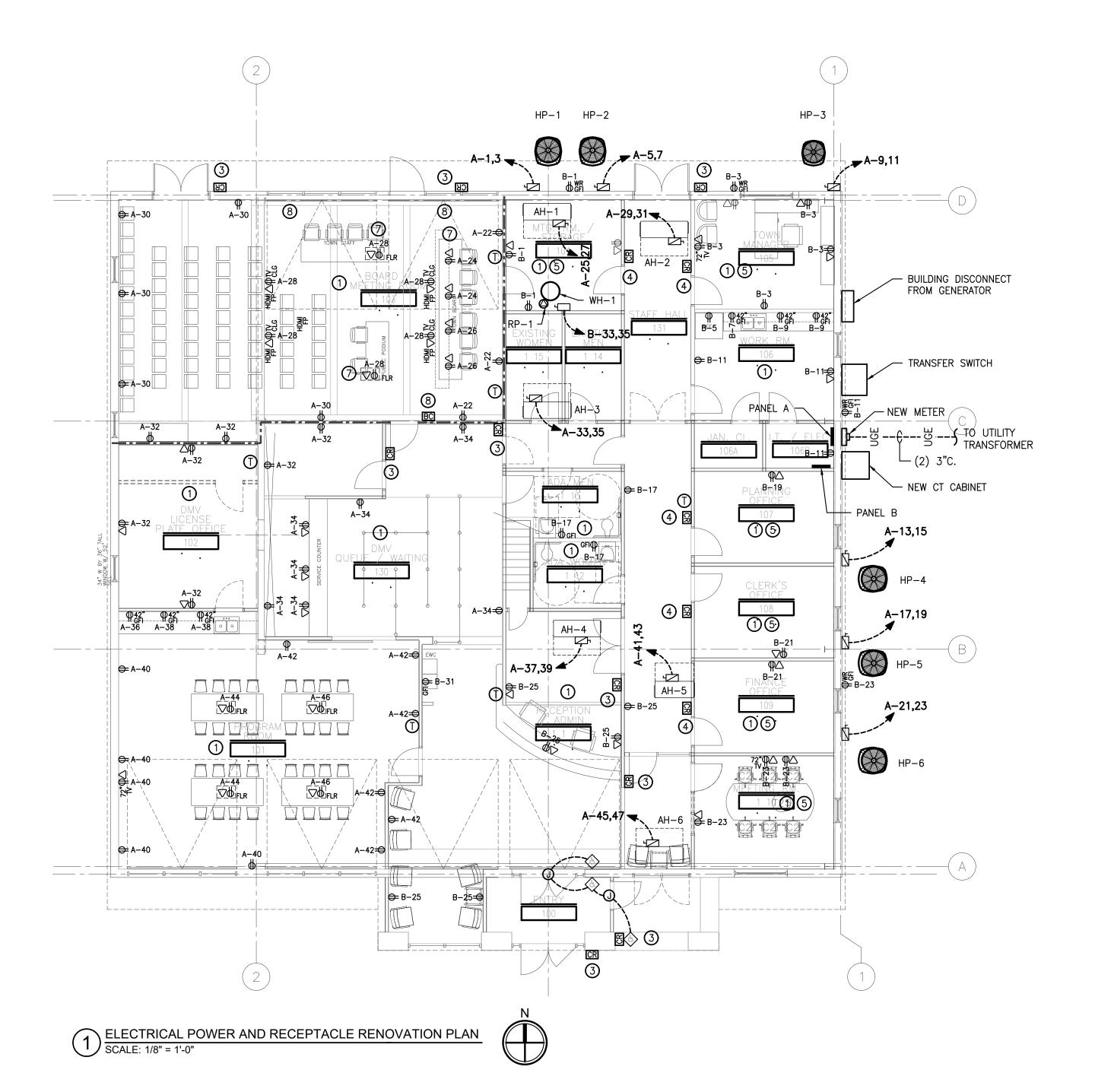
4. ALTERNATE: PROVIDE CARD READER.

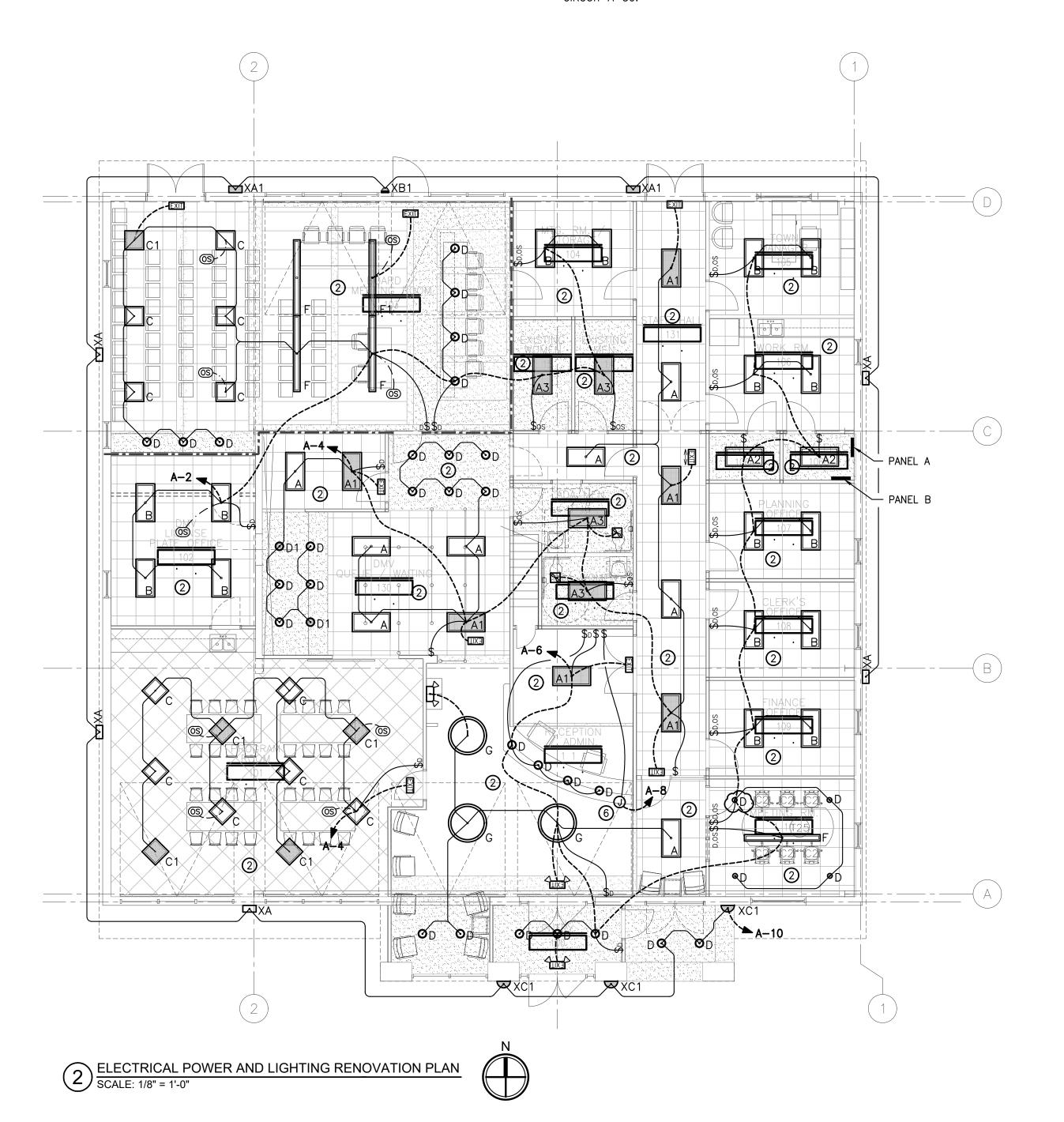
5. CONNECT EXISTING RECEPTACLES TO CIRCUIT SHOWN IN ROOM FOR NEW RECEPTACLES.

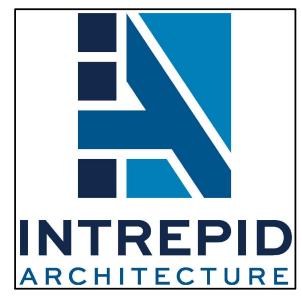
6. FOR OWNER SIGNAGE ON BULKHEAD. E.C. TO INSTALL AND WIRE.

7. PROVIDE FLOOR BOX AT THE TOWN BOARD DESK, TOWN STAFF DESK, AND PUBLIC PODIUM. PROVIDE 2"C. FROM FLOOR BOX TO ABOVE CEILING FOR OWNERS HDMI CABLES.

8. PROVIDE NEW WINDOW BLIND CONTROLS AND CONTROL WIRING AS REQUIRED. CONNECT NEW BLINDS AND CONTROL WIRING FOR A COMPLETE SYSTEM. CONNECT BLIND MOTORS/CONTROLS TO CIRCUIT A-30.



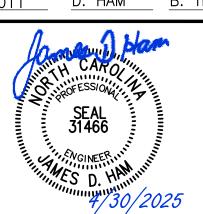




114 E. 3RD STREET; GREENVILLE, NC 27858 p:1.252.270.5330 www.INTREPIDarchitecture.com

P.O. BOX 11527 N GOLDSBORO, NC 27532 TEL: **(919) 778–9064** 

PROJECT NO. PROJECT MGR. DRAWN BY B. TRENT



REVISIONS:

# DESC: DATE

DRAWN BY: DJH/SAL PROJECT #: 23018

ISSUE DATE: 04/30/2025 PHASE: CONSTRUCTION

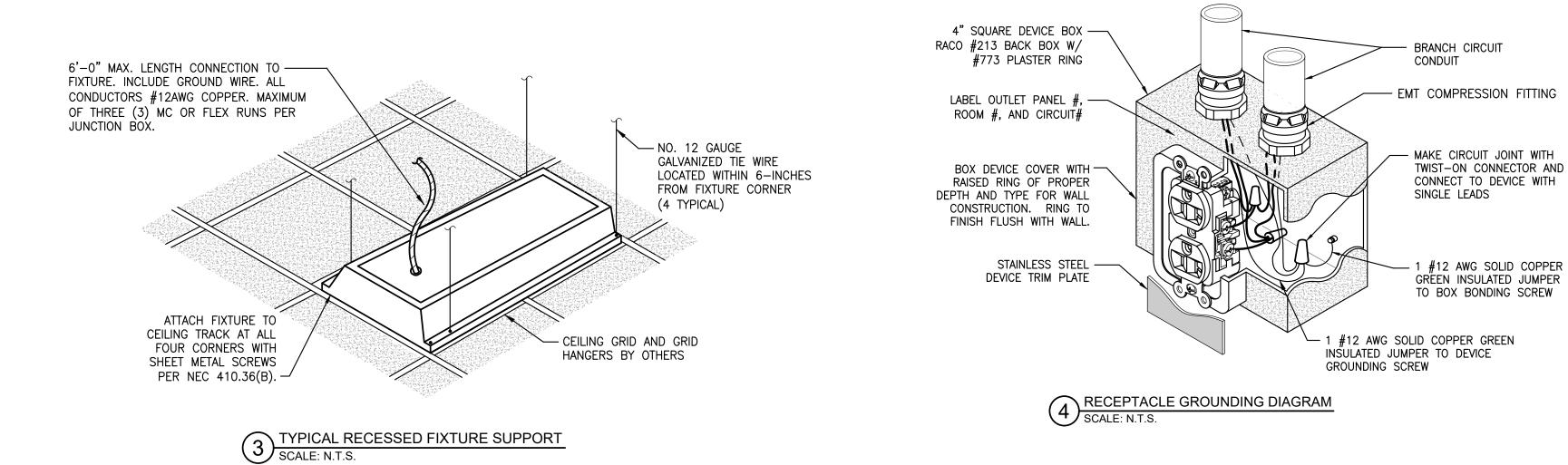
DOCUMENTS SHEET NAME & NUMBER

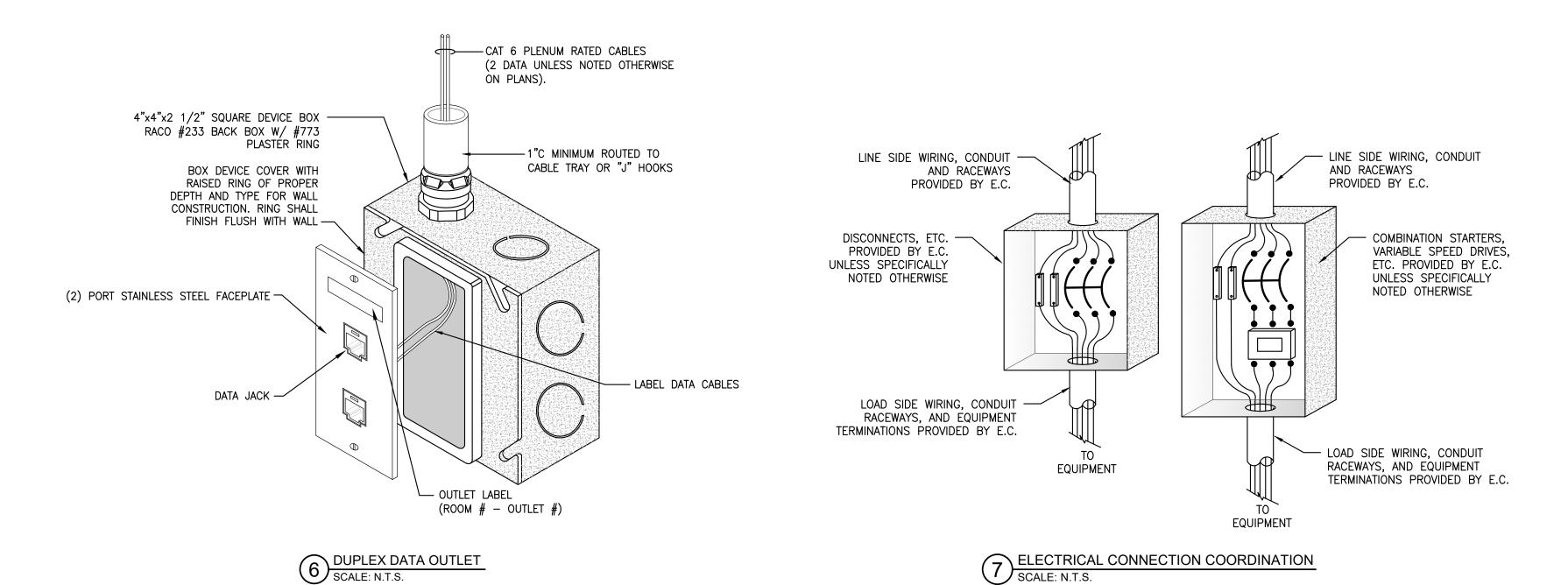
ELECTRICAL PLANS

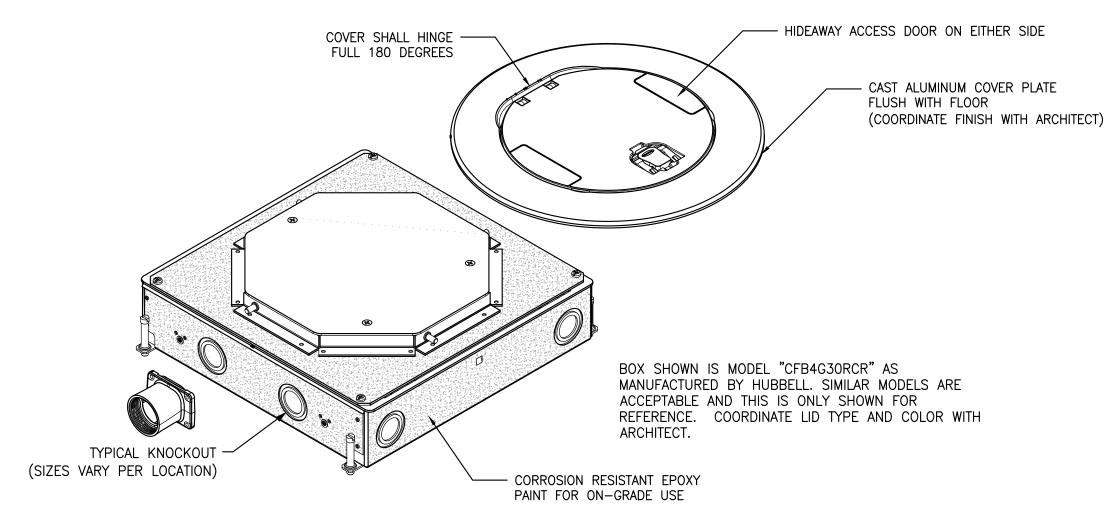
1. THIS DETAIL IS GENERIC TO ADDRESS MOUNTING HEIGHTS OF WALL MOUNTED DEVICES.

- 2. ALL DEVICES MAY NOT APPLY TO THIS PROJECT. 3. ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
- 4. REFERENCE ELECTRICAL LEGEND FOR MORE SPECIFIC DEVICES TYPES. 5. VERIFY COUNTER AND BACK SPLASH HEIGHTS PRIOR TO ROUGH-IN.

DEVICE MOUNTING HEIGHTS SCALE: N.T.S.



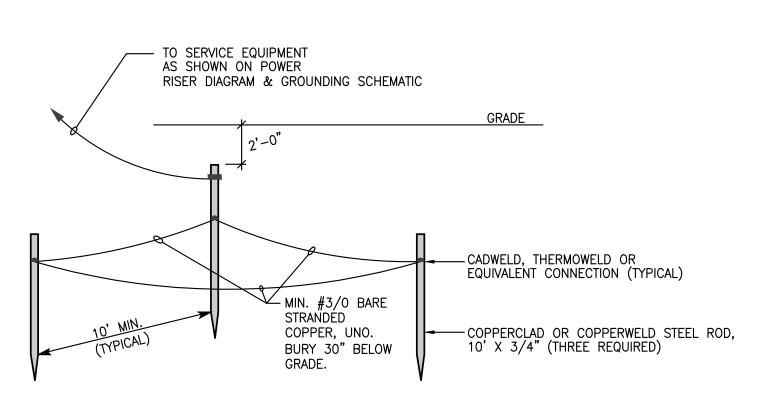




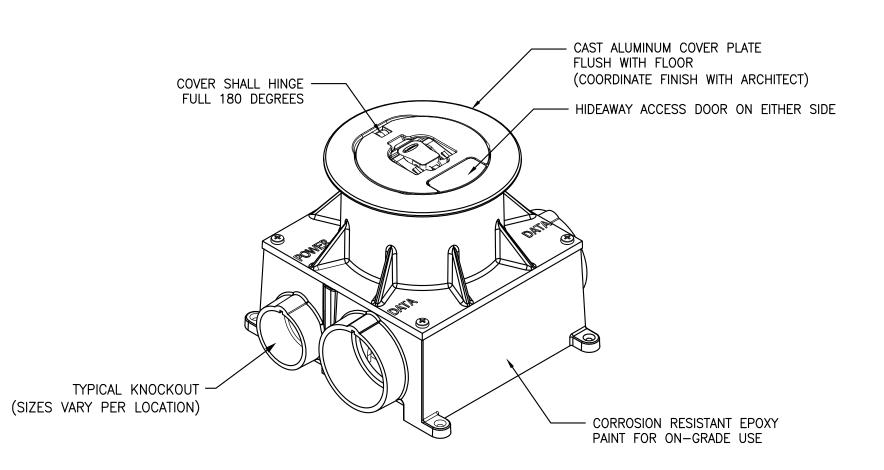
NOTES: 1. BOX SHALL BE PROVIDED WITH DIVIDER FOR POWER AND DATA

- COMPARTMENTS. COORDINATE LID TYPE AND COLOR WITH ARCHITECT. 2. PROVIDE (1) 1"C. FOR DATA AND (1) 2"C. FOR A/V (HDMI CABLES BY
- OWNER) TO ABOVE CEILING.
- 3. PROVIDE WITH 2-INCH THREADED CONDUIT HUB.
- 4. PRODUCT SHALL BE UL LISTED AND COMPLY WITH UL 514A FOR SCRUB WATER REQUIREMENTS.
- 5. BOX SHALL BE RATED FOR "ON-GRADE" USE

MULTISERVICE FURNITURE FEED FLOOR BOX (BOARD ROOM)
SCALE: N.T.S.



TYPICAL MADE GROUNDING ELECTRODE SCALE: N.T.S.



- NOTES: 1. BOX SHALL BE PROVIDED WITH DIVIDER FOR POWER AND DATA COMPARTMENTS. COORDINATE LID TYPE AND COLOR WITH ARCHITECT.
  - PROVIDE (1) 1"C. FOR DATA AND (1) 2"C. FOR A/V TO ABOVE CEILING.
  - PROVIDE WITH 2-INCH THREADED CONDUIT HUB.
  - 4. PRODUCT SHALL BE UL LISTED AND COMPLY WITH UL 514A FOR SCRUB WATER REQUIREMENTS.
  - 5. BOX SHALL BE RATED FOR "ON-GRADE" USE

8 MULTISERVICE FLUSH CONCRETE FLOOR BOX (PROGRAM BOX) SCALE: N.T.S.



114 E. 3rd STREET; GREENVILLE, NC 27858 p:1.252.270.5330 www.INTREPIDarchitecture.com

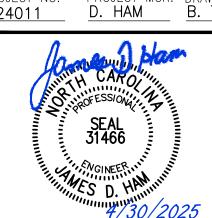
0

2855

P.O. BOX 11527 NC LIC #: C-1132 GOLDSBORO, NC 27532

PROJECT NO. PROJECT MGR. DRAWN BY
224011 D. HAM B. TRENT <u>224011</u> D. HAM

TEL: **(919) 778–9064** 



**REVISIONS:** 

# DESC: DATE

> DRAWN BY: DJH/SAL PROJECT #: 23018

ISSUE DATE: 04/30/2025

PHASE: CONSTRUCTION

SHEET NAME & NUMBER

DOCUMENTS

ELECTRICAL DETAILS

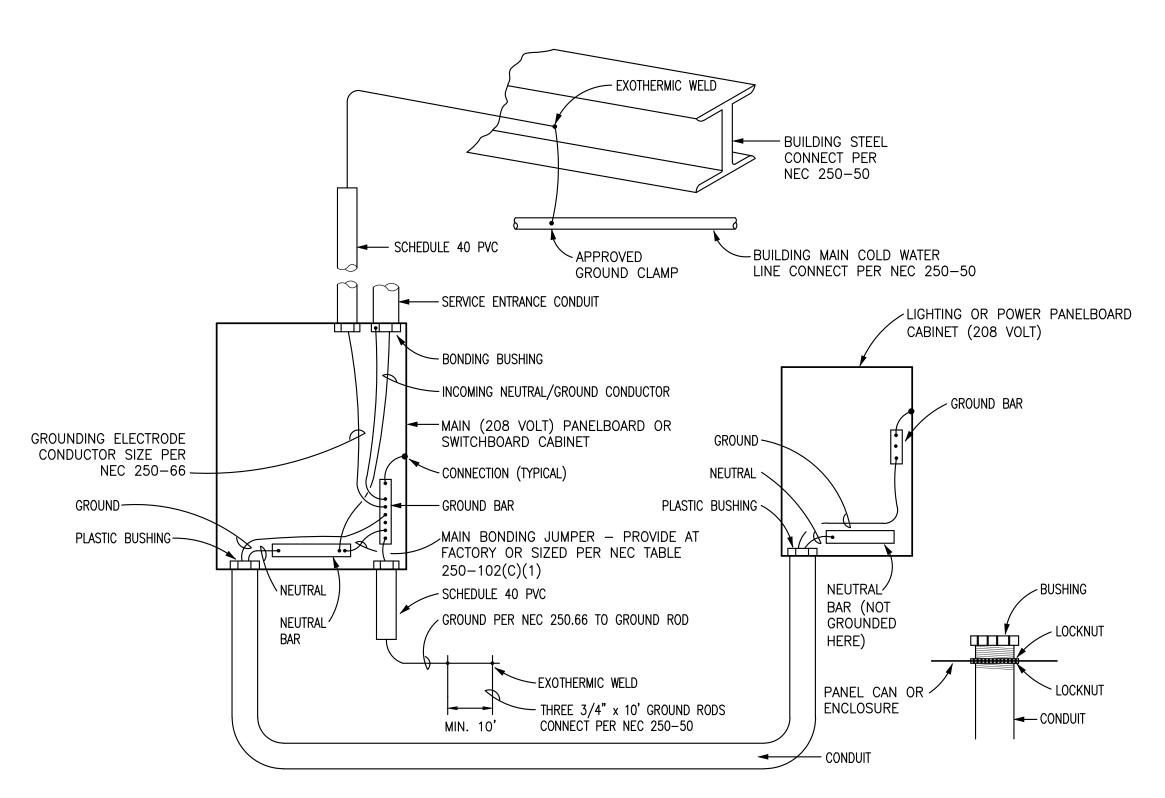
\* GROUNDING CONDUCTOR SIZE \_\_\_\_

 LABEL RACEWAYS OR CONDUCTORS AT GROUND BUS WITH PHENOLIC TAGS TO IDENTIFY CONNECTION LOCATION SUCH AS: "GAS PIPING", "GROUND RODS" OR "BUILDING STEEL".

1. ALL UNDERGROUND CONNECTIONS SHALL BE EXOTHERMIC WELDS OR IRREVERSIBLE

COMPRESSION CONNECTIONS, EXCEPT MECHANICAL CONNECTIONS IN TEST WELLS.

SERVICE EQUIPMENT GROUNDING DIAGRAM
SCALE: N.T.S.



NOTES: 1. GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN CONTINUOUSLY (UNBROKEN) FROM COLD WATER LINE AND/OR BUILDING STEEL AND GROUND ROD TO GROUND BAR BEFORE BONDING TO ANY CONDUIT BUSHING.

2. ALL THE FOLLOWING GROUNDING ELECTRODES THAT ARE AVAILABLE SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM PER NEC 250.52:

2.1. METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10 FT

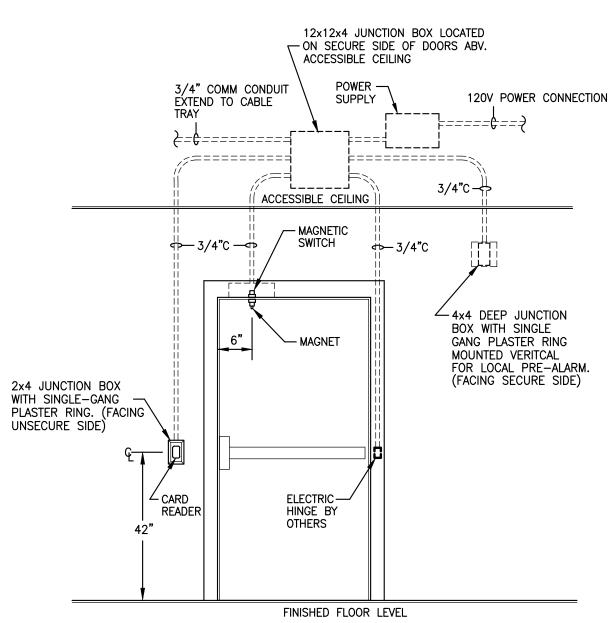
OR MORE
2.2. METAL FRAME OF THE BUILDING,

2.3. ANY ELECTRODE ENCASED BY AT LEAST 2 IN. OF CONCRETE, CONSISTING OF 20 FT OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS NOT LESS THAN 1/2" IN DIAMETER.

2.4. GROUND RING ENCIRCLING THE BUILDING2.5. ROD AND PIPE ELECTRODES NOT LESS THAN 8 FT.

2.6. PLATE ELECTRODES

TYPICAL BONDING & GROUNDING DIAGRAM SCALE: N.T.S.



## NOTES:

1. COORDINATE THE EXACT LOCATION OF SECURITY DEVICES, CONDUIT, AND JUNCTION BOXES

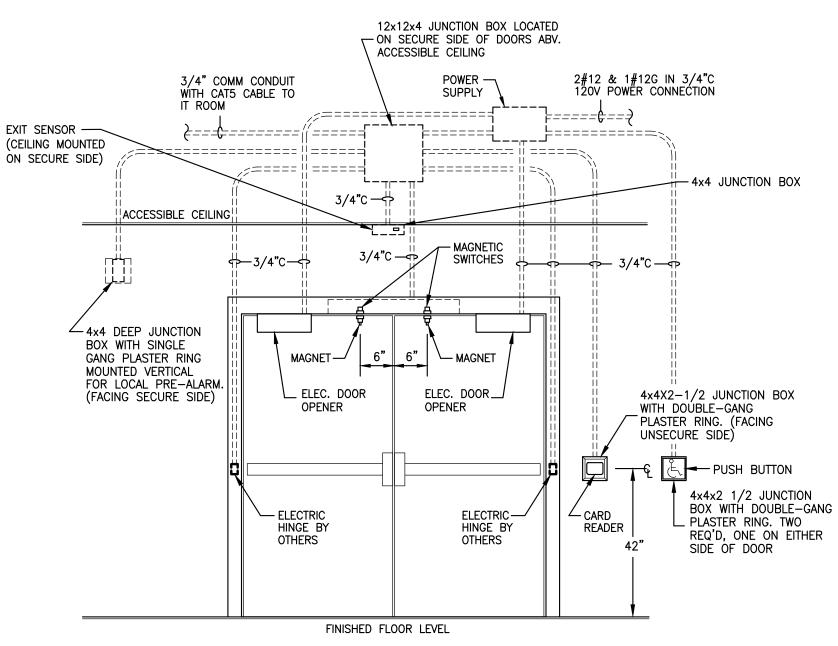
WITH ARCHITECT, AND SECURITY VENDOR.

2. EC SHALL PROVIDE ALL JUNCTION BOXES AND CONDUITS AS SHOWN INCLUDING APPROPRIATE EXTENSION RINGS, COVERS, ETC. EC SHALL INCLUDE PULL STRINGS IN ALL CONDUITS. COORDINATE ACTUAL LOCATION OF ALL DEVICES AND JUNCTION BOX SIZES WITH HARDWARE VENDOR PRIOR TO INSTALLATION. HARDWARE VENDOR SHALL PROVIDE ALL DEVICES AND ALL WIRING OTHER THAN 120 VOLT POWER WIRING.

3. COORDINATE CONDUITS TO DOOR DEVICES WITH DOOR FRAMING FOR CONCEALED MAGNETIC DOOR POSITION SWITCHES AND ELECTRIC HINGES.

4. ALL SECURITY ELECTRONICS JUNCTION BOXES SHALL BE MOUNTED ON THE SECURE SIDE OF DOOR.

CARD ACCESS AT DOOR SCALE: N.T.S.



## NOTES:

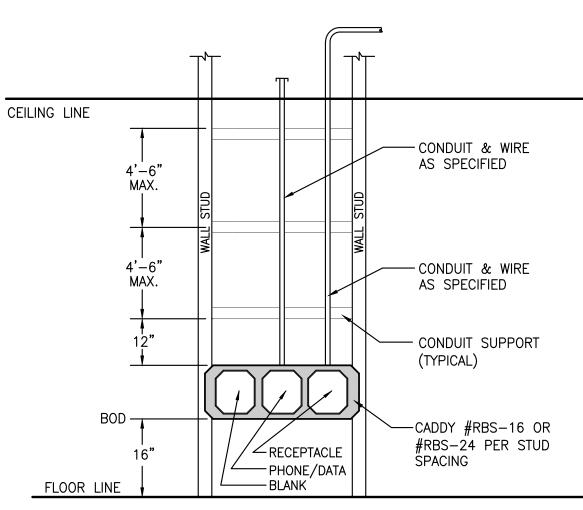
1. COORDINATE THE EXACT LOCATION OF SECURITY DEVICES, CONDUIT, AND JUNCTION BOXES WITH ARCHITECT, AND SECURITY VENDOR.

2. EC SHALL PROVIDE ALL JUNCTION BOXES AND CONDUITS AS SHOWN INCLUDING APPROPRIATE EXTENSION RINGS, COVERS, ETC. EC SHALL INCLUDE PULL STRINGS IN ALL CONDUITS. COORDINATE ACTUAL LOCATION OF ALL DEVICES AND JUNCTION BOX SIZES WITH HARDWARE VENDOR PRIOR TO INSTALLATION. HARDWARE VENDOR SHALL PROVIDE ALL DEVICES AND ALL WIRING OTHER THAN 120 VOLT POWER WIRING.

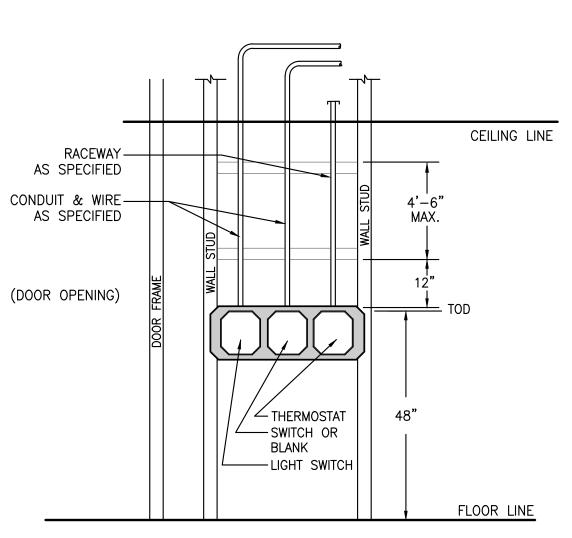
3. COORDINATE CONDUITS TO DOOR DEVICES WITH DOOR FRAMING FOR CONCEALED MAGNETIC DOOR POSITION SWITCHES AND ELECTRIC HINGES.

4. ALL SECURITY ELECTRONICS JUNCTION BOXES SHALL BE MOUNTED ON THE SECURE SIDE OF DOOR.

CARD ACCESS AT DOOR WITH ADA ACCESS SCALE: N.T.S.



NOTES: 1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX.
2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.



NOTES: 1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX. 2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.

3. LIGHT SWITCHES SHALL BE MOUNTED WITHIN 4" OF DOOR FRAME. USE SAME WIDTH IN ALL LOCATIONS. COORDINATE ADDITIONAL FRAMING WITH G.C. TO MAKE SPACING THE SAME IN ALL ROOMS OF SIMILAR TYPE.

TYPICAL DEVICE MOUNTING
SCALE: N.T.S.





2855



PROJECT NO. PROJECT MGR. DRAWN BY
224011 D. HAM B. TRENT



REVISIONS:

# DESC: DATE

DRAWN BY: DJH/SAL PROJECT #: 23018

ISSUE DATE: 04/30/2025

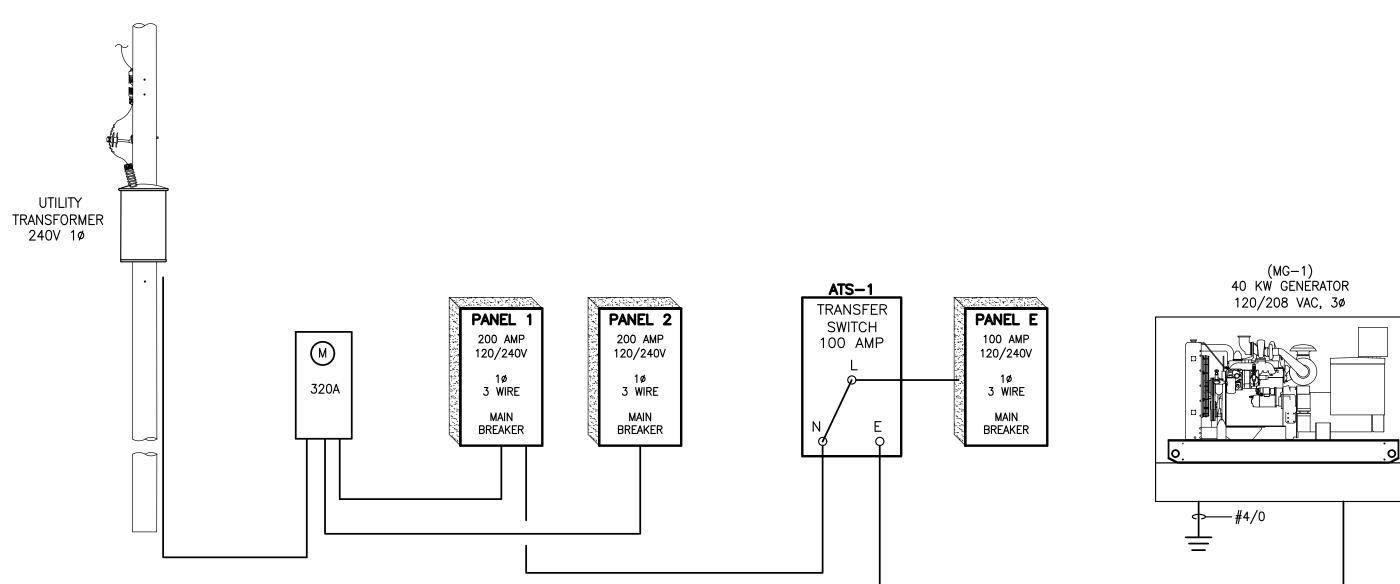
PHASE:
CONSTRUCTION

**DOCUMENTS** 

SHEET NAME & NUMBER

ELECTRICAL DETAILS

E2.02



PACKAGED HVAC UNITS
AIR HANDLER FANS (SPLIT
AIR HANDLER ELECTRIC HE
HVAC OUTDOOR UNIT
WATER HEATERS

SUBTOTAL CONTINUOUS

RECEPTACLES UP TO 10 K
RECEPTACLES OVER 10 KV
MISC. LOADS

MISC. LOADS

SUBTOTAL NON-CONT

TOTAL CONTINUOUS A

FAULT CURRE

NEW CT CABINET   M)   Solution   N   E   600   600   AMP   120/240V   120/240V   140   3   WIRE   3   WIRE   MAIN   MAIN	NEW UTILITY TRANSFORMER 240V 1Ø	SEE GROUNDING ODETAIL	600 3R	PANEL A 600 AMP 120/240V  1ø 3 WIRE  MAIN BREAKER  3#3/0	PANEL B  200 AMP 120/240V  1ø 3 WIRE  MAIN BREAKER
3"C. (WIRING BY UTILITY)		3"C. (WIRING BY UTILITY)		, , , , , , , , , , , , , , , , , , ,	

NEW ELECTRICAL RISER SCALE: N.T.S.	
SCALE: N.T.S.	

EXISTING ELECTRICAL RISER SCALE: N.T.S.

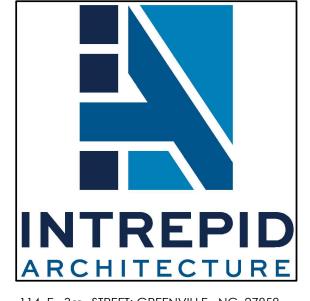
NOTES:

1. PROVIDE A SIGN AT THE TRANSFER SWITCH INDICATING THE TYPE AND LOCATION OF THE STANDBY POWER SOURCE. SIGN SHALL READ "SECONDARY SOURCE IS DIESEL GENERATOR LOCATED ON SOUTH—EAST CORNER OF FIRE DEPARTMENT BUILDING."

2. FUSED DISCONNECT BETWEEN GENERATOR AND TRANSFER SWITCH SHALL BE SERVICE ENTRANCE RATED.

EnTech mentarine		EXISTING SERVICE LO	DAD SUMMARY		
OCCUPANCY TYP	E - OFFICE		BUILDING AREA	- 5,944 SQUARE FEET	
CONTINUOUS LOAD DESCRIPTION	LOAD (KVA)	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD (KVA)
NDOOR LIGHTING	7.7	TABLE 220.12	100%	TABLE 220.42	7.7
OUTDOOR LIGHTING	0.5		100%		0.5
SIGN LIGHTING	1.2	220.14 F	100%		1.2
TRACK LIGHTING		220.43	100%		###
PACKAGED HVAC UNITS		ARTICLE 440	100%		###
AIR HANDLER FANS (SPLIT SYSTEMS)	0.8	ARTICLE 440	100%		0.8
AIR HANDLER ELECTRIC HEAT	14.4	422.12	100%		14.4
HVAC OUTDOOR UNIT	6.2	ARTICLE 440	100%		6.2
WATER HEATERS	4.5	422.13	100%		4.5
CURTOTAL CONTINUOUS LOADS		<u>.                                      </u>			35.3
SUBTOTAL CONTINUOUS LOADS				230.42 A 1	x 125%
				CONT. LOAD TOTAL	44.1
NON CONTINUOUS LOAD DESCRIPTION					
RECEPTACLES UP TO 10 KVA	5.0	220.14 1	100% OF 1st 10 KVA		5.0
RECEPTACLES OVER 10 KVA	0.0	220.14 1	50% ABOVE 10 KVA		0.0
MISC. LOADS	5.0		NONCONTINUOUS LOAD x 100%		5.0
MISC. LOADS	0.0		NONCONTINUOUS LOAD x 100%		0.0
SUBTOTAL NON-CONTINUOUS LOADS					10.0
TOTAL CONTINUOUS AND NON CONTINUOU	JS LOADS				54.1
FAULT CURRENT @ TRANSFORMER	SECONDARY TERMI	NALS	SE	RVICE LOAD	
	SECONDARY TERMI  - AMPS		54 KVA	RVICE LOAD	<b>225</b> AMPS

C EnTech		NEW SERVICE LOA	D SUMMARY		
OCCUPANCY TYPE	E — OFFICE		BUILDING AREA	- 5,944 SQUARE FEET	
CONTINUOUS LOAD DESCRIPTION	LOAD (KVA)	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD (KVA)
NDOOR LIGHTING	7.7	TABLE 220.12	100%	TABLE 220.42	7.7
OUTDOOR LIGHTING	0.5		100%		0.5
SIGN LIGHTING	1.2	220.14 F	100%		1.2
AIR HANDLER FANS (SPLIT SYSTEMS)	0.8	ARTICLE 440	100%		0.8
AIR HANDLER ELECTRIC HEAT	44.0	422.12	100%		44.0
HVAC OUTDOOR UNIT	27.0	ARTICLE 440	100%		27.0
EXIST. WATER HEATERS	4.5	422.13	100%		4.5
NON CONTINUOUS LOAD DESCRIPTION				230.42 A 1 CONT. LOAD TOTAL	x 125%
NON CONTINUOUS LOAD DESCRIPTION					
DECEDIACIES LID TO 40 10/4	40.0	000444	4000 05 4 1 40 10/4		40.0
RECEPTACLES UP TO 10 KVA	10.0	220.14 1	100% OF 1st 10 KVA		10.0
RECEPTACLES OVER 10 KVA	0.0	220.14 1 220.14 1	50% ABOVE 10 KVA		0.0
RECEPTACLES OVER 10 KVA	0.0 5.0	+	50% ABOVE 10 KVA  NONCONTINUOUS LOAD x 100%		0.0 5.0
RECEPTACLES OVER 10 KVA	0.0	220.14 1	50% ABOVE 10 KVA		0.0
RECEPTACLES OVER 10 KVA	0.0 5.0	220.14 1	50% ABOVE 10 KVA  NONCONTINUOUS LOAD x 100%		0.0 5.0
RECEPTACLES OVER 10 KVA MISC. LOADS MISC. LOADS	0.0 5.0 0.0	220.14 1	50% ABOVE 10 KVA  NONCONTINUOUS LOAD x 100%		0.0 5.0 0.0
RECEPTACLES OVER 10 KVA MISC. LOADS MISC. LOADS SUBTOTAL NON—CONTINUOUS LOADS	0.0 5.0 0.0 S LOADS	220.14 1	50% ABOVE 10 KVA  NONCONTINUOUS LOAD x 100%  NONCONTINUOUS LOAD x 100%	RVICE LOAD	0.0 5.0 0.0 15.0



114 E. 3rd STREET; GREENVILLE, NC 27858 p:1.252.270.5330 www.INTREPIDarchitecture.com

MAYSVILLE TOWN HALL

P.O. BOX 11527 NC LIC #: C-1132 GOLDSBORO, NC 27532 TEL: (919) 778-9064

PROJECT NO. PROJECT MGR. DRAWN BY

D. HAM
B. TRENT



REVISIONS:

# DESC: DATE

DRAWN BY: DJH/SAL

PROJECT #: 23018

ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION
DOCUMENTS

SHEET NAME & NUMBER

ELECTRICAL SCHEDULES

EnTech Entech		NE	W PANELE	BOARD SCH	HEDU	LE			
PANEL A	SURFACE MOI	JNTED					600 AN	MP (FEEDER SIZE)	1ø, 3 WIRE
MAIN BREAKER	BOTTOM FE	EED	2	22K AIC				20/240 VOLT	BOLT ON BREAKER
NEMA 1	COPPER B	US						MP (BUS RATING)	SURGE PROTECTION
_OAD SERVED	WIRE SIZE	CONDUIT LOAD SIZE A B	CKT NO.	PHASE A B	CKT NO.	LOAI	D CONDUIT	WIRE SIZE	LOAD SERVED
HP-1	2#12 & 1#10G	3/4" 20	1 40	20	2	11	3/4	_	LIGHTS
115-1	2#12 & 1#100	20	3 50	20	4	1	11 3/4	_	LIGHTS
HP-2	2#10 & 1#10G	3/4" 23	5	20	6	11	3/4	_	LIGHTS
111 2	2π10 & 1π100	23	7 40	20	- 8		4 3/4	_	SIGN
HP-3	2#12 & 1#10G	3/4" 20	9 -	20	10	3	3/4	_	EXTERIOR LIGHTS
111 5	2#12 & 1#100	20	11 25	20	12		_	_	SPARE
HP-4	2#12 & 1#10G	3/4" 14	13 -	20	14	-	_	_	SPARE
ПР-4	2#12 & 1#100	14	15 20	20	16		_	_	SPARE
HP-5	2412 % 14120	3/4" 10	17 - 1	20	18	_	_	_	SPARE
HP-3	2#12 & 1#12G	10	19 40	20	20		_	_	SPARE
HP-6	2#12 & 1#10G	3/4" 20	21 - 70	20	22	5	3/4"	2#12 & 1#12G	BOARD RECEPT
HF-0	2#12 & 1#106	20	23 60	20	24		3 3/4"	2#12 & 1#12G	BOARD RECEPT
AH-1	2#6 & 1#10G	3/4" 41	25 - 00	20	26	3	3/4"	2#12 & 1#12G	BOARD RECEPT
АП— І	2#0 & 1#10G	3/4 41	27 60	20	- 28		9 3/4"	2#10 & 1#10G	BOARD RECEPT
ALL O	246 % 14100	3/4" 41	29 - 00	20	30	11	3/4"	2#10 & 1#10G	BOARD RECEPT
AH-2	2#6 & 1#10G	3/4 41	31 60	20	- 32		9 3/4"	2#10 & 1#10G	DMV OFFICE RECEPT
A11 7	0//0 % 1//100	7 /4" 41	33 - 00	20	34	11	3/4"	2#10 & 1#10G	DMV QUEUE RECEPT
AH-3	2#6 & 1#10G	3/4" 41	35 40	20	36	1	2 3/4"	2#10 & 1#10G	PROGRAM RECEPT
A11 A	0//0 0 1//100	3/4" 31	37 - 1	_	- 38	3	3/4"	2#10 & 1#10G	PROGRAM RECEPT
AH-4	2#8 & 1#10G	3/4 31	39	20	40		8 3/4"	2#8 & 1#8G	PROGRAM RECEPT
	0    4 0 0 4    4 0 0	3/4" 20	41 25	20	42	9	3/4"	2#10 & 1#10G	PROGRAM RECEPT
AH-5	2#12 & 1#10G	3/4 20	43	20	44		4 3/4"	2#10 & 1#10G	PROGRAM RECEPT
ALL C	0//6 0- 4//400	3/4" 41	45 60	20	46	4	3/4"	2#10 & 1#10G	PROGRAM RECEPT
AH-6	2#6 & 1#10G	3/4 41	47	20	48		_	-	SPARE
SPARE	_	-  -	49 20	20	50		_	_	SPARE
SPARE	_	-    -	51 20	20	- 52	5	53 <sub>2</sub> "	7/17/0 0 4/100	DANIELD
SPARE	_	-   -	53 20	20_	54	57	7 4	3#3/0 & 1#6G	PANEL B

ENTech ENGINEERING

TRANSITION TYPE

1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:

MICROPROCESSOR BASED CONTROLLER

3 POSITION CONTACTOR

UTILITY RETURN TIMER

5 YEAR WARRANTY

ENGINE START CONTACT

UL1008 LISTED

DELAYED TRANSITION 120/240 1ø 3W

GENERATOR AND UTILITY UNDER VOLTAGE CONTROL SETPOINT

- SHORT CIRCUIT RATING BASED ON ANY UPSTREAM BREAKER

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS. COORDINATE BREAKERS, DISCONNECTS, AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS. PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

## (1) WIRE THROUGH PHOTOCELL.

## **SURGE PROTECTION NOTES:**

- 1. SURGE SUPPRESSION SHALL BE RATED AS FOLLOWS: - FACTORY INSTALLED AS AN INTEGRAL PART OF INDICATED PANELBOARDS, COMPLYING WITH UL 1449, 5TH EDITION, SPD TYPE 2 - MINIMUM SINGLE-PULSE SURGE CURRENT WITH STAND RATING PER PHASE SHALL NOT BE LESS THAN 250kA FOR SERVICE ENTRANCE PANELS AND 150kA FOR
- SUB-PANELS. THE PEAK SURGE CURRENT RATING SHALL BE THE ARITHMETIC SUM OF THE RATINGS OF THE INDIVIDUAL MOVS IN A GIVEN MODE. - LET-THROUGH VOLTAGES BASED ON IEEE TEST WAVES SHALL BE CAT C1 (6KV, 3KA)
- 400V FOR 208V PANEL AND 800V FOR 480V PANELS. PROTECTION MODES AND UL1449VPR SHALL BE: 700V LINE TO NEUTRAL, 700V LINE
- TO GROUND, 600V NEUTRAL TO GROUND, & 1000V LINE TO LINE. - SHORT CIRCUIT CURRENT RATING GREATER THAN PANELBOARD
- INOMINAL RATING OF 20KA.

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING OUTDOOR LIGHTING RECEPTACLES (1ST 10 RECEPTACLES (ABV 10 HVAC HVAC (NON-COINCIDENT SUB PANEL	(KVA) = 1.2 = 77.3	100% 100% 100% 50% 100% 0%	= 4.4 = 0.4 = 10.0 = 0.6 = 77.3 = = 12.7
TOTALS:	= 106.0 k		= 105.4 KVA
MINIMUM PANEL SIZE:	105 KVA X 12	5% = 132 k	(VA (317 AMPS)
GROSS PH	HASE TOTALS (A	MPS) A =	450 B = 437

**AUTOMATIC TRANSFER SWITCH SCHEDULE** 

VOLTS/PH/WIRES

RATING

NEMA 3R

ENCLOSURE S.C. WITHSTAND NO. POLES S.E. RATED

	NEW PANELBOARD SCHEDULE									
	PANEL B	SURFACE MOU	NTED				20	DO AM	P (FEEDER SIZE)	1ø, 3 WIRE
	MAIN BREAKER	BOTTOM FE	ED		22K AIC			12	0/240 VOLT	BOLT ON BREAKER
	NEMA 1	COPPER BU	JS				2	200 AN	IP (BUS RATING)	SURGE PROTECTION
	LOAD SERVED	WIRE SIZE	CONDUIT LOAD SIZE A B	CKT NO.	PHASE A B 20     20	CKT NO.	LOAD A B	CONDUIT SIZE	WIRE SIZE	LOAD SERVED
	MTG RM RECEPT	2#12 & 1#12G	3/4" 8	1	20 20	2	-	ı	-	SPARE
	TOWN MGR RECEPT	2#12 & 1#12G	3/4" 8	3	20 20	4	_	1	_	SPARE
1	REFRIGERATOR	2#12 & 1#12G	3/4" 6	5	20 20	6	-	ı	-	SPARE
	WORK RM RECEPT	2#12 & 1#12G	3/4" 12	7	20 20	8		1	_	SPARE
	WORK RM RECEPT	2#12 & 1#12G	3/4" 3	9	20 20	10	-	_	_	SPARE
	WORK RM RECEPT	2#12 & 1#12G	3/4" 6	11	20 20	12	-	ı	_	SPARE
	SPARE	_		13	20 20	14	-	1	_	SPARE
	SPARE	_		15	20 20	16	-	-	_	SPARE
	RESTROOMS RECEPT	2#12 & 1#12G	3/4" 5	17	20 20	18	-	ı	-	SPARE
	OFFICE RECEPT	2#12 & 1#12G	3/4" 2	19	20 20 20	20	-	1	_	SPARE
	OFFICE RECEPT	2#12 & 1#12G	3/4" 3	21	20 20	22	-	-	_	SPARE
	MEETING RECEPT	2#12 & 1#12G	3/4" 6	23	20 20 20	24	-	1	_	SPARE
	ADMIN RECEPT	2#10 & 1#10G	3/4" 9	25	20 20	26	-	-	_	SPARE
	SPARE	_	_   -	27	20 20 20	28	-	1	-	SPARE
	SPARE	_	-  -	29	20 20	30	-	_	_	SPARE
1	WATER COOLER	2#12 & 1#12G	3/4" 4	31	30 20	32	-	ı	_	SPARE
	WH-1	2#10 & 1#10G	3/4" 19	33	20	34	-	_	-	SPARE
	w⊓- i	2#10 & 1#10G	19	35	20 20	36		-	_	SPARE
	SPARE	_		37	20 20 20	38	-	1	-	SPARE
	SPARE	_		39	20 20 20	40		1	-	SPARE
	SPARE	_		41	20 20	42	_		_	SPARE

COORDINATE BREAKERS, DISCONNECTS, AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS. PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

# SURGE PROTECTION NOTES:

1. SURGE SUPPRESSION SHALL BE RATED AS FOLLOWS: - FACTORY INSTALLED AS AN INTEGRAL PART OF INDICATED PANELBOARDS, COMPLYING

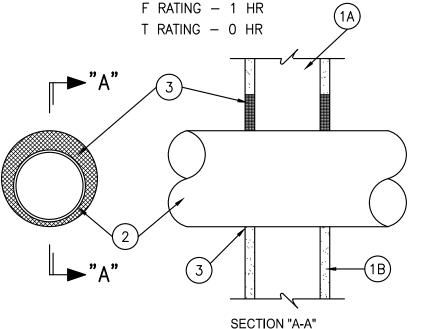
1) PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489.

- WITH UL 1449, 5TH EDITION, SPD TYPE 2 - MINIMUM SINGLE-PULSE SURGE CURRENT WITH STAND RATING PER PHASE SHALL NOT BE LESS THAN 250kA FOR SERVICE ENTRANCE PANELS AND 150kA FOR SUB-PANELS. THE PEAK SURGE CURRENT RATING SHALL BE THE ARITHMETIC SUM OF THE RATINGS OF THE INDIVIDUAL MOVS IN A GIVEN MODE.
- LET-THROUGH VOLTAGES BASED ON IEEE TEST WAVES SHALL BE CAT C1 (6KV, 3KA) 400V FOR 208V PANEL AND 800V FOR 480V PANELS.
- PROTECTION MODES AND UL1449VPR SHALL BE: 700V LINE TO NEUTRAL, 700V LINE TO GROUND, 600V NEUTRAL TO GROUND, & 1000V LINE TO LINE.
- SHORT CIRCUIT CURRENT RATING GREATER THAN PANELBOARD INOMINAL RATING OF 20KA.

		5	/ II \ L
	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING OUTDOOR LIGHTING RECEPTACLES (1ST 10 RECEPTACLES (ABV 10 HVAC HVAC (NON-COINCIDEN WATER HEATERS DEDICATED RECP/EQUI	= KVA)= = ITAL) = = 4.6	100% 100% 100% 50% 100% 0% 100%	= = 7.6 = = = = 4.6 = 1.1
TOTALS:	= 13.2 KV	′A	= 13.2 KV/
MINIMUM PANEL SIZE:	13 KVA X 125	% = 17 KVA	(40 AMPS)

GROSS PHASE TOTALS (AMPS) A = 53 B = 57

UL SYSTEM NO. W-L-1108



- WALL ASSEMBLY THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED16 IN. O.C. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. O.C.
- B. WALLBOARD, GYPSUM\* ONE LAYER OF NOM 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAXIMUM DIAMETER OF OPENING
- 2. THROUGH PENETRANTS ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
- A. STEEL PIPE NOM 10 IN. DIA. (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN O IN. TO MAX 1 IN.
- B. IRON PIPE NOM 10 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN. C. CONDUIT - NOM 2 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL
- CONDUIT. THE ANNULAR SPACE SHALL BE MIN O IN. TO MAX 1 IN.
- D. COPPER TUBING NOM 2 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN O IN. TO MAX 1 IN.
- E. COPPER PIPE NOM 2 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN O IN. TO MAX 1 IN. 3. FILL, VOID OR CAVITY MATERIAL\*-CAULK- MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED
- WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL, A MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WALL/PIPE INTERFACE ON BOTH SURFACES OF WALL.

THE RECTORSEAL CORP.-METACAULK 1000 \*BEARING THE UL CLASSIFICATION MARKING FIRESTOP MATERIALS BY 3M AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

UL 1 HOUR GYPBOARD WALL PENETRATION DETAIL SCALE: N.T.S.



INTREPID

ARCHITECTURE

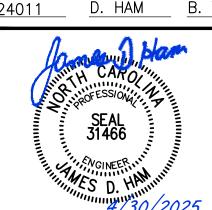
114 E. 3RD STREET; GREENVILLE, NC 27858

285

www.INTREPIDarchitecture.com

p:1.252.270.5330

PROJECT NO. PROJECT MGR. DRAWN BY <u>224011</u> D. HAM



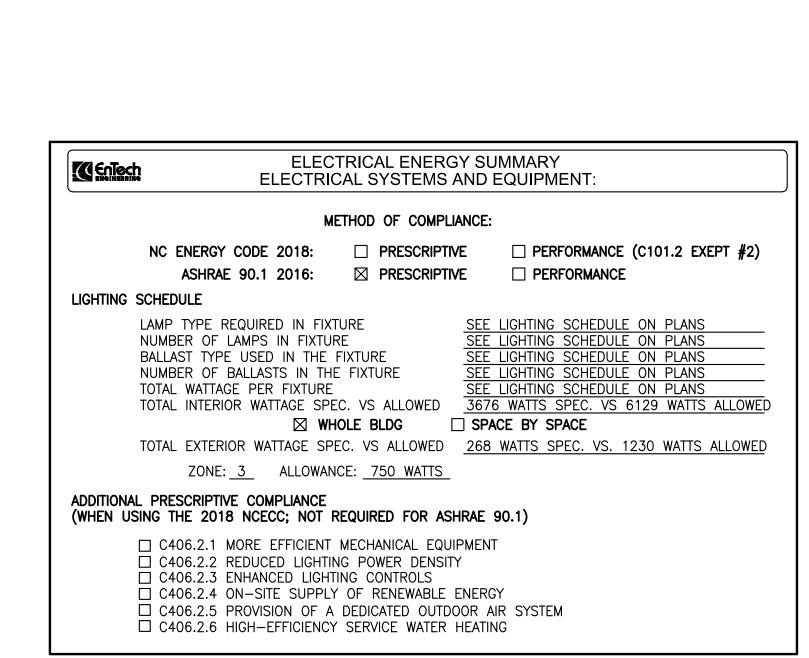
REV	SIONS:	
#	DESC:	DATE

DRAWN BY: DJH/SAL PROJECT #: 23018 ISSUE DATE: 04/30/2025

PHASE: CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

ELECTRICAL SCHEDULES



C EnTe	ELECTRICAL LEGEND								
SYM.	DESCRIPTION	REF. MODEL NO.	REMARKS						
$\odot$	JUNCTION BOX	_	DOUBLE GANG UNO						
TS	THERMOSTAT OR SENSOR JUNCTION BOX	_	MOUNT 48" TOD AFF UNO						
Ъ	NON-FUSED DISCONNECT	_	-						
$\square_1$	FUSED DISCONNECT	_	-						
OS) <sub>DT</sub>	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY (LOW VOLTAGE)	WATTSTOPPER DT-305	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS						
©S) <sub>DT</sub>	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY (LINE VOLTAGE - 800W)	WATTSTOPPER DT-355	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS						
(S) <sub>US</sub>	CEILING OCCUPANCY SENSOR (LOW VOLTAGE)	WATTSTOPPER WT-1105 OR WT-2205	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS						
\$ <sub>os</sub>	WALL SWITCH WITH OCCUPANCY SENSOR (PASSIVE INFRARED)	WATTSTOPPER PW-100, OR EQUAL	_						
\$ <sub>os</sub>	WALL SWITCH WITH OCCUPANCY SENSOR (PASSIVE INFRARED)	WATTSTOPPER PW-103, OR EQUAL	MULTI-WAY CONTROL UP TO FOUR SWITCH LOCATIONS						
\$ <sub>D,OS</sub>	DIMMING WALL SWITCH WITH OCC SENSOR (0-10VDC DIMMING & DUAL TECH)	WATTSTOPPER DW-311	MULTI-WAY CONTROL UP TO FOUR SWITCH LOCATIONS						
\$	SWITCH	HUBBELL CSB120x	_						
\$ <sub>D</sub>	0-10V DIMMER SWITCH	HUBBELL PSD710-UNV	STAND ALONE CONTROL						
\$ <sub>D</sub>	0-10V DIMMER SWITCH (VACANCY APP)	HUBBELL LVSD-M	FOR USE WITH CEILING OCC SENSOR AND POWER PACK						
\$ <sub>D</sub>	0-10V DIMMER SWITCH (OCCUPANCY APP) HUBBELL LVSD-L		FOR USE WITH CEILING OCC SENSOR AND POWER PACK						
\$ <sub>M</sub>	MANUAL MOTOR SWITCH	SIEMENS MMS	MOUNT AS REQUIRED						
\$онд	OVERHEAD DOOR CONTROL	_	MOUNT AS REQUIRED						
0	EMERGENCY LIGHT	-	SOLID FILL HATCHING						
Ф	RECEPTACLE	HUBBELL HBL5352x	HBL5362C2x FOR CONTROLLED RECEPTACLE						
$\bigoplus_{WR}$	WEATHER RESISTANT	HUBBELL HBL5362xWR	-						
GFI	GROUND FAULT RECEPTACLE	HUBBELL GFRST20x	SELF TESTING PER UL 943						
₩R GFI	GROUND FAULT, WEATHER RESIST RECEPT.	HUBBELL GFTWRST20x W/'IN USE" COVER	SELF TESTING PER UL 943						
Ů <sub>CLG</sub>	CEILING RECEPTACLE	_	_						
<b>⊕</b> s	SPECIAL RECEPTACLE	_	COORDINATE WITH EQUIPMENT						
$\bigcup_{FLR}$	FLOOR RECEPTACLE	_	REFER TO FLOOR BOX DETAILS						
U VFLR	FLOOR RECEPTACLE	_	REFER TO FLOOR BOX DETAILS						
$\oplus$	DOUBLE DUPLEX RECEPTACLE	HUBBELL (2) HBL5352x	-						
XX-YY	XX=PANEL YY=CIRCUIT IDENTIFIER	_	-						
$\bigcirc$	DATA/PHONE OUTLET	_	DOUBLE GANG UNO						
√HDMI √FP	WALL FLAT PANEL OUTLETS	-	DOUBLE GANG UNO (1) RJ45 TO DATA RM & (1) HDMI TO SWITCH						
CR	DOOR CARD READER	_	SEE SECURITY DOOR DETAILS						
BC	WINDOW BLIND CONTROLS	_	SEE ARCH DRAWINGS FOR DETAILS						
Å	PUSH BUTTON ADA DOOR CONTROL								

# NOTES:

- 1. STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS.
- 2. E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ARCHITECT,
- OWNER AND/OR G.C.

  3. PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR
- EQUAL PRODUCT.

  4. PROVIDE LOW VOLTAGE OCCUPANCY SENSORS WITH POWER PACKS AS REQUIRED.

# ABBREVIATIONS:

ADDREVIATIONS.			
G.C.	GENERAL CONTRACTOR	AFG	ABOVE FINISHED GRADE
P.C.	PLUMBING CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
M.C.	MECHANICAL CONTRACTOR	<b>Q</b>	CENTERLINE OF DEVICE
E.C.	ELECTRICAL CONTRACTOR	BOD	BOTTOM OF DEVICE
AFF	ABOVE FINISHED FLOOR	TOD	TOP OF DEVICE

# DEMOLITION NOTES:

- 1. PRIOR TO SUBMITTING A BID, CONTRACTOR MUST VISIT THE JOB SITE IN ORDER TO HAVE A WORKING KNOWLEDGE OF THE EXISTING SYSTEMS AND CONDITIONS.
- 2. DEMOLITION PLANS SHOW APPROXIMATE LOCATIONS OF EXISTING ELECTRICAL SYSTEMS. ALL ITEMS ENCLOSED IN THE STRUCTURE MAY NOT BE NOTED OR MAY BE SHOWN SCHEMATICALLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TERMINATIONS AND RECONNECTIONS REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM. INFORMATION IS BASED ON NON-DESTRUCTIVE FIELD INVESTIGATION AND/OR EXISTING DRAWING INFORMATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONDITIONS THAT REQUIRE CORRECTIVE ACTION BEYOND THE SCOPE OF THESE PLANS. ALL FIELD CORRECTIONS SHALL BE RED-LINED AND PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- 3. ALL ABANDONED CONCEALED CONDUIT NOT READILY REMOVABLE SHALL BE CAPPED BELOW FINISH SURFACES.
- 4. REMOVE ALL ACCESSIBLE CONDUIT AND DEVICES ON CIRCUITS BEING REMOVED. WIRING SHALL BE REMOVED BACK TO PANELS. BREAKERS SHALL REMAIN AND LABELED AS SPARE. UPDATE PANEL SCHEDULES MATCHING THE MODIFIED CONDITION.
- 5. GENERAL CONTRACTOR SHALL REPAIR ALL WALL, FLOOR & CEILING OPENINGS FROM DEMOLITIONS OF ELECTRICAL WORK. FINISH SURFACES SHALL BE RESTORED TO MATCH ORIGINAL CONDITION. ELECTRICAL CONTRACTOR SHALL TAKE EXTREME CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING SURFACES.
- 6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AND WASTE MATERIAL OF DEMOLITION & CONSTRUCTION UNLESS DIRECTED OTHERWISE. THE OWNER RESERVES THE RIGHT TO RETAIN ANY ITEM WHETHER NOTED ON PLANS OR NOT.
- 7. CONTRACTOR SHALL REMOVE ALL ABANDONED CONDUIT AND WIRE.
- 8. IN GENERAL, ALL DEVICES SHOWN WITH LIGHT PEN WEIGHT ARE EXISTING AND TO REMAIN. DEVICES WITH HEAVY PEN WEIGHT ARE NEW.

											/	,011 /st	, /ß	/ <sub>\</sub> 8 /		SHIDE STIDE	
<b>CENTE</b>	<u>Fallech</u>		LIGHT FIX	LIGHT FIXTURE SCHEDULE					LE						SKI	CELLON	
MARK	DESCRIPTION	REF MANF	MODEL NUMBER FOR FIXTURE REFERENCE QUALITY AND APPEARANCE	SOURCE	LED LUMENS	COLOR TEMP	CRI	FIXTURE INPUT WATTS	VOLTS	/N	JII OH	RIT OF	OF THE STATE OF TH	CY SM	? WE	SHIDA	SE REMARKS
A	2x4 LED VOLUMETRIC	LITHONIA	2BLT4 40L ADSM GZ1 LP840	LED	4,000	40K	82	31	120		•						
A1	2x4 LED VOLUMETRIC (EMERGENCY)	LITHONIA	2BLT4 40L ADSM GZ1 LP840 E10WLCP	LED	4,000	40K	82	31	120	•	•	•					
A2	2x4 LED VOLUMETRIC (SURFACE MOUNT KIT)	LITHONIA	2BLT4 40L ADSM GZ1 LP840 2X4SMKSHP PAF	LED	4,000	40K	82	31	120	•	•						
A3	2x4 LED VOLUMETRIC (EMERGENCY) (SURFACE MOUNT KIT)	LITHONIA	2BLT4 40L ADSM GZ1 LP840 EL14L 2X4SMKSHP PAF	LED	4,000	40K	82	31	120	•	•	•					
В	2x4 LED VOLUMETRIC	LITHONIA	2BLT4 48L ADSM GZ1 LP840	LED	5,000	40K	82	39	120	•	•						
B1	2x4 LED VOLUMETRIC (EMERGENCY)	LITHONIA	2BLT4 48L ADSM GZ1 LP840 EL14L	LED	5,000	40K	82	39	120	•	•	•					
С	2x2 LED VOLUMETRIC	LITHONIA	2BLT2 48L ADSM GZ1 LP840	LED	5,000	40K	82	43	120	•	•						
C1	2x2 LED VOLUMETRIC (EMERGENCY)	LITHONIA	2BLT2 48L ADSM GZ1 LP840 EL14L	LED	5,000	40K	82	43	120	•	•	•					
D	6" RECESSED DOWNLIGHT	LITHONIA	LDN6 AL04 40K LO6 AR LSS MVOLT UGZ1	LED	4,000	40K	80	39	120	•	•						
D1	6" RECESSED DOWNLIGHT (EMERGENCY)	LITHONIA	LDN6 AL04 40K LO6 AR LSS MVOLT UGZ1 E10WCP	LED	4,000	40K	80	39	120	•	•	•					
F	LINEAR DIRECT/INDIRECT PENDANT	PEERLESS	BRM9L LLP 80CRI 40K ID2000LMF 20/80 MIN1 MVOLT SCT F3/36A	LED	4,000	40K	80	16/FT	120	•	•						
F1	LINEAR DIRECT/INDIRECT PENDANT (EMERGENCY)	PEERLESS	BRM9L LLP 80CRI 40K ID2000LMF 20/80 MIN1 MVOLT SCT_E10WLCP F3/36A	LED	4,000	40K	80	16/FT	120	•	•	•					
G	DECORATIVE PENDANT	LIGHTART	3 QTY LA2-ESS-LOOP-8H-840CK-STD-WPC-WH	LED	7,500	40K	80	75	120	•	•					•	
EXIT	EXIT LIGHT	LITHONIA	LQM S W R 120/277	LED	_	_	_	4	120		,	•		•			
	EXTERIOR LIGHTS										•	•		•		•	
XA	EXTERIOR WALL PACK	LITHONIA	WST LED P2 40K VF MVOLT	LED	3,500	40K	70	25	120	•				•	•		
XA1	EXTERIOR WALL PACK (EMERGENCY)	LITHONIA	WST LED P2 40K VF MVOLT E20WC	LED	3,500	40K	70	25	120	•	•			•	•		
XB1	EXTERIOR AFFINITY (EMERGENCY)	LITHONIA	AFF OEL UVOLT LTP SDRT FCT CW	LED	635	-	-	3	120	•	•			•	•	•	
XC1	EXTERIOR SCONCE (EMERGENCY)	ECLIPSE	BSC-TRITON-BSC-TR-XL1-LED4K-80CRI-UNV-BZ-CB-SG-EL10W-CW	LED	1300	40K	80	30	120	•	•			•	•	•	

- . PROVIDE EXIT LIGHTS WITH SINGLE OR DOUBLE-FACE AS REQUIRED, CHEVRON DIRECTIONAL INDICATORS, MOUNTING BRACKETS AND NICKEL CADMIUM BATTERY BACKUP. 2. BATTERIES INSTALLED OUTDOORS SHALL BE RATED -4°F TO 130°F.
- 3. BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES PER NC FIRE CODE SECTION 1006.3 & 1011.5.3. BATTERIES SHALL BE TESTED PER NEC 700.12(A).
- 4. PRODUCTS LISTED ARE DESIGN BASIS. EQUAL SUBSTITUTION SUBMITTALS FROM ACUITY, PHILIPS, COOPER, OR HUBBELL WILL BE EVALUATED.

  5. CONTRACTOR SHALL SUBMIT LIGHTING PLAN SHEET(S) WITH SCHEDULE TO SUPPLIER FOR FIXTURE SELECTION.

# ELECTRICAL NOTES:

- 1. ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT. THIS INCLUDES ALL REQUIRED CONTROL WIRING OR WIRING CALLED FOR BY THE MANUFACTURER. INSTALLATION SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.
- 2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- 3. ALL WORK SHALL COMPLY WITH THE 2020 VERSION OF THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- 4. BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. BY APPROVAL AND SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ENGINEER, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED AND CHECKED THE INFORMATION WITHIN THE SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE ON SUBMITTAL OF ANY DEVIATIONS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS REQUIREMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS OR OTHER SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND SUCH DEVIATION HAS BEEN APPROVED IN WRITING.
- 5. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- 6. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS. COORDINATE LOCATION AND WIRING OF DEVICES WITH OTHER TRADES OR SUPPLIERS OF EQUIPMENT SUCH AS: ELEVATOR, FIRE PUMP AND FIRE PROTECTION PLANS, KITCHEN HOOD, KITCHEN COOLER, ETC. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FIELD WIRING OF SPECIALTY ITEMS UNLESS NOTED OTHERWISE.
- 7. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDED BY E.C., INTERLOCK WIRING SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE CONTROL DEVICE.
- 8. ALL WIRING, PANELBOARDS, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC.
- 9. PROVIDE THHN/THWN COPPER WIRE (UL 83 LISTED). PROVIDE A MINIMUM WIRE SIZE OF #12. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC TABLE 310.16 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110.14(C). OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS. ALL EQUIPMENT FEEDERS SHALL BE RUN CONTINUOUS FROM THE BREAKER TO THE DISCONNECT SWITCH; SPLICES ARE NOT ALLOWED.
- 10. COLOR CODING OF WIRE SHALL BE AS FOLLOWS:

240/120V	PHASE A	BLACK
·	PHASE B	RED
	NEUTRAL	WHITE
	EQ. GROUND	GREEN

- 11. PROVIDE LABELS ON ALL RECEPTACLES IDENTIFYING PANEL AND CIRCUIT NUMBER. LABELS SHALL BE BRADY CLEAR POLYESTER 1"W X 0.375"H OR PANDUIT EQUAL, WITH BLACK LETTERING. MARK ALL JUNCTION BOXES ABOVE CEILING INDICATING PANEL AND CIRCUIT NUMBER USING PERMANENT MARKER. PROVIDE PHENOLIC LABEL ON EXTERIOR BOXES WITH EQUIPMENT DESCRIPTION, AND PANEL AND CIRCUIT NUMBER. BOXES SHALL NOT BE INSTALLED IN AN INACCESSIBLE LOCATION.
- 12. PROVIDE MINIMUM 3/4" CONDUIT FOR ALL WIRING. ALL RACEWAYS SHALL BE INSTALLED WITHIN WALLS, INCLUDING BLOCK, UNLESS NOTED OTHERWISE. FLEXIBLE METAL CONDUIT WITH A MAXIMUM LENGTH OF 6' MAY BE USED FOR THE CONNECTION OF LIGHT FIXTURES TO JUNCTION BOXES. EMT OR RIGID SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE. CONDUIT ABOVE GRADE SHALL BE STEEL. EMT SHALL NOT BE USED IN DIRECT CONTACT WITH THE EARTH, EXTERIOR LOCATIONS, OR WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE. FITTINGS ON EMT CONDUIT SHALL BE COMPRESSION TYPE. FITTINGS ON IMC OR RGS SHALL BE THREADED. MOTOR CONNECTIONS SHALL BE MADE WITH FMC, MIN. 18" LONG AND MAX 36". USE PVC JACKETED FLEXIBLE LIQUID TIGHT CONDUIT TYPE UA FOR CONNECTIONS IN WET LOCATIONS. LOCATE JUNCTION AND PULL BOXES SUCH THAT THEY REMAIN ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE.
- 13. PROVIDE 3/4-INCH EMPTY CONDUITS TERMINATING ABOVE THE CEILING FOR ALL HVAC THERMOSTATS. JUNCTION BOXES SHALL MATCH ORIENTATION OF THERMOSTATS PROVIDED BY M.C.. MOUNT JUNCTION BOXES 48-INCHES A.F.F. UNLESS NOTED OTHERWISE. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT.
- 14. PROVIDE ONE—INCH CONDUITS EXTENDING ABOVE CEILING FOR ALL TELEPHONE AND DATA OUTLETS SHOWN ON PLANS. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT. SEE PLAN DETAILS FOR CABLE REQUIREMENTS AT EACH LOCATION. PROVIDE 12 INCH SERVICE LOOP ABOVE EACH OUTLET. PROVIDE J—HOOKS ON MAXIMUM 30" SPACING. INSTALL J—HOOKS APPROXIMATELY 12—24 INCHES ABOVE CEILING WHEN POSSIBLE FOR EASY FUTURE ACCESS. SUPPORTS SHALL ALLOW FOR 20 PERCENT FUTURE WIRING. PENETRATIONS THROUGH FIRE WALLS SHALL BE MADE WITH CONDUITS.
- 15. LARGE BUNDLES OF DATA CABLES SHALL BE COMBED AND TIE-WRAPPED IN NEAT BUNDLES. TIE-WRAPS SHALL BE HOOK AND LOOP OR RELEASABLE TYPE. PROVIDE EIGHT-POSITION MODULAR, IDC-TYPE JACKS ON BOTH ENDS OF DATA CABLES EQUAL TO RATING OF CABLE. PROVIDE FACEPLATES OF MATERIAL EQUAL TO RECEPTACLE FACEPLATE UNLESS NOTED OTHERWISE. TERMINATE ALL DATA/PHONE CABLES ON BOTH ENDS AND COMPLYING WITH ANSI/TIA-568-C.1. LABEL CABLES ON BOTH ENDS AND PATCH PANELS FRONT AND REAR WITH OWNER'S STANDARD LABELING. PROVIDE PATCH PANEL QUANTITY TO MATCH CABLE QUANTITY PLUS 10% SPARE. PROVIDE LABELING, TESTING AND MAPPING OF ALL CABLES AND SUBMIT REPORT TO OWNER. SWITCHES, HUBS, UPS, PATCH CABLES PROVIDED BY OWNER. INSTALL CABLE WITH 10 FEET OF SLACK NEAR THE EQUIPMENT RACKS. SLACK CABLE SHALL NOT BE COILED, BUT STORED IN A FIGURE 8, "U" OR "S" PATTERN.

## **ELECTRICAL NOTES CONTINUED:**

- 16. PROVIDE MACHINE TYPED PANEL SCHEDULES IN EACH PANEL INDICATING THE SPECIFIC LOAD DESCRIPTION FOR EACH BREAKER PER NEC 408.4 (GENERAL DESCRIPTIONS SUCH AS "RECEPTACLE" ARE NOT ALLOWED. INDICATE ROOM NUMBERS FOR EACH LOAD.) LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE, CURRENT RATING AND PHASE. PROVIDE ALL PANELBOARDS, SWITCHBOARDS, CONTROL PANELS, ETC. WITH WARNING SIGN FOR POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. PROVIDE PHENOLIC LABEL FOR SUB-PANELS DENOTING POWER SOURCE PER NEC 408.4(B) READING "FED FROM PANEL"—".
- 17. PROVIDE NEW GROUNDING SYSTEM. GROUND RODS SHALL BE COPPER CLAD STEEL, DIAMETER OF 3/4" x 10' LENGTH MINIMUM. SPACE RODS SUCH THAT THERE IS A MINIMUM OF 10 FEET SPACING BETWEEN RODS. DRIVE RODS 6 INCHES BELOW GRADE. CONNECTIONS TO RODS SHALL BE BY EXOTHERMIC WELDS OR COMPRESSION CONNECTORS. GROUNDING TO BUILDING STEEL FOR SERVICE CONNECTION AND ANY SEPARATELY DERIVED SYSTEM SHALL BE BY EXOTHERMIC WELD.
- 18. PROVIDE HEAVY DUTY FUSED AND NON-FUSED DISCONNECT SWITCHES AS INDICATED ON PLANS. DISCONNECTS LOCATED OUTSIDE SHALL BE NEMA-3R. PROVIDE REJECTION CLIPS IN FUSED DISCONNECTS. LABEL DISCONNECT WITH PHENOLIC LABEL INDICATING PANEL AND CIRCUIT NUMBER FEEDING EQUIPMENT.
- 19. PROVIDE NEMA (IEC NOT ALLOWED) HORSEPOWER RATED STARTERS AND DISCONNECTS WHEN CONNECTED TO MOTORS. STARTERS SHALL BE PROVIDED WITH OVERLOAD SIZED TO MATCH MOTOR RATINGS. PROVIDE WITH ENCLOSURE RATED FOR THE INSTALLED ENVIRONMENT WITH PADLOCK GUARD FOR LOCKING IN THE "OFF" OR "STOP" POSITION.
- 20. PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS. LIGHTING INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID SYSTEM WITH #12 WIRE. SECURE FIXTURES TO CEILING FRAMING MEMBER BY MECHANICAL MEANS PER NEC 410.36. LIGHTING CIRCUITS SHALL NOT SHARE NEUTRALS. LED FIXTURES SHALL CONTAIN COMPONENTS THAT ARE MODULAR IN DESIGN AND EASILY REPLACEABLE/UPGRADABLE. COORDINATE LOCATION OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS. THE E.C. SHALL BE RESPONSIBLE FOR ENSURING ALL COMPONENTS (FIXTURES, LED DRIVERS, AND CONTROLS) ARE FULLY COMPATIBLE PRIOR TO ORDERING. PROVIDE ALL REQUIRE MOUNTING HARDWARE, CONNECTORS, AND FIXTURE OPTIONS TO PROVIDE A COMPLETE AND OPERATIONAL INSTALLATION.
- 21. FIXTURE WHIPS TO DIMMABLE LED DRIVERS SHALL BE A MAXIMUM OF 6-FEET LONG, PRE-MANUFACTURED WITH CONTROL WIRING INTERNAL TO THE FMC MEETING BOTH UL AND NEC REQUIREMENTS. THE CONTROL WIRING SHALL MEET NEC SECTION 300.3(C)(1) AND 725.136. CLASS 2 OR 3 CIRCUITS SHALL BE 16/2 PVC JACKETED WITH GRAY AND PURPLE STRANDED CONDUCTORS.
- 22. PROVIDE EMERGENCY AND EXIT LIGHTS AS SHOWN ON PLANS. PER NFPA 101 SECTION 7.10.1.9. POWER SHALL BE PROVIDED FROM LIGHTING CIRCUITS ON THE UNSWITCHED LEG OF THE CIRCUIT SUCH THAT POWER TO THE EMERGENCY AND EXIT LIGHTS IS NOT DISCONNECTED WHEN NORMAL LIGHTING IS OFF. EXTERIOR EMERGENCY LIGHTS SHALL BE WIRED SUCH THAT PHOTOCELL AND/OR TIME CLOCK OPERATION DOES NOT DISCONNECT POWER TO BATTERIES. EMERGENCY UNIT EQUIPMENT AND BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES. BATTERIES SHALL BE TESTED PER NEC 700.12(A).
- 23. OCCUPANCY SENSORS IN RESTROOMS, CORRIDORS AND OPEN OFFICE AREAS SHALL BE ULTRASONIC ONLY. SENSOR LOCATIONS ARE APPROXIMATE; REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. ULTRASONIC SENSORS SHALL NOT BE LOCATED CLOSER THAN 4 FEET FROM AIR SUPPLY/RETURN REGISTERS. VERIFY ALL COVERAGE AREAS OF SENSORS AS THEY VARY BETWEEN MANUFACTURERS. NO SENSOR SHALL BE INSTALLED MORE THAN 12 FEET A.F.F., UNLESS NOTED OTHERWISE OR ALLOWED BY MANUFACTURER'S RECOMMENDATIONS. ALL REQUIRED POWER PACKS AND OTHER ACCESSORIES SHALL BE PROVIDED FOR A COMPLETE OPERATIONAL SYSTEM. INSTALL CONTROL DEVICES/POWER PACKS IN ACCESSIBLE J—BOX. OCCUPANCY SENSOR DEVICES INDICATED ON THE PLANS SHOW THE INTENT FOR LIGHTING CONTROL AND MINIMUM DEVICE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OCCUPANCY SENSOR MANUFACTURER TO DETERMINE PROPER TECHNOLOGY AND PLACEMENT OF THE SENSORS. ADDITIONAL SENSOR DEVICES MAY BE REQUIRED BEYOND THOSE SHOWN ON THE PLANS TO PROVIDE COMPLETE COVERAGE OF THE SPACE, WHICH SHALL BE PROVIDED AT NO COST TO THE OWNER.
- 24. RECEPTACLES SHALL BE FEDERAL SPECIFICATION GRADE, 20 AMP, 120V, AND MOUNTED VERTICALLY UNLESS NOTED OTHERWISE.
- 25. RECEPTACLES WITHIN 6 FT. OF THE EDGE OF SINKS & LAVATORIES SHALL BE GROUND FAULT CIRCUIT—INTERRUPTING. ALL KITCHEN RECEPTACLES, INDOOR WET LOCATIONS, LOCKER ROOMS WITH SHOWERS, GARAGES, SERVICE BAYS AND THOSE RECEPTACLES FEEDING VENDING MACHINES AND WATER COOLERS SHALL BE PROVIDED WITH GROUND FAULT CIRCUIT—INTERRUPTER PROTECTION.
- 26. RECEPTACLES INSTALLED OUTSIDE OR IN WET LOCATIONS SHALL BE LISTED AS WEATHER-RESISTANT TYPE AND HAVE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION. PROVIDE WITH "IN USE", CAST ALUMINUM WEATHERPROOF COVERS IDENTIFIED AS "EXTRA DUTY" PER NEC 406.9(B).
- 27. THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS FOR DEVICE LOCATIONS PRIOR TO ROUGH—IN OF OUTLETS. COORDINATE WITH OWNER FOR SIGN—OFF OF JUNCTION BOX ROUGH—IN FOR RECEPTACLES AND DATA OUTLETS. SHEETROCK SHALL NOT BE INSTALLED BEFORE OWNER SIGN—OFF IS COMPLETED.
- 28. OBTAIN CUT SHEETS, INSTALLATION DATA, AND ROUGH—IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT. COORDINATE ROUGH—IN AND POWER REQUIREMENTS WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY ASSOCIATED WORK.
- 29. WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.
- 30. PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TO MATCH DEVICE. BRUSHED STAINLESS STEEL (RECEPTACLES, DATA, AND BLANKS)
- 31. MEMBRANE PENETRATIONS OF MAXIMUM 2-HOUR FIRE-RESISTANCE RATED WALLS AND PARTITIONS BY STEEL ELECTRICAL BOXES THAT DO NOT EXCEED 16 SQUARE INCHES IN AREA, INSTALLED ON OPPOSITE SIDES OF THE WALL OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR PROTECTED WITH LISTED PUTTY PADS. THE ANNULAR SPACE BETWEEN THE WALL MEMBRANE AND THE BOX SHALL NOT EXCEED 1/8". THE USE OF LISTED ELECTRICAL BOXES WHICH HAVE BEEN TESTED FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE INSTALLED PER MANUFACTURES INSTRUCTIONS.
- 32. ALL ELECTRICAL COMPONENTS AND FIXTURES SHALL BE CLEANED & POLISHED. PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
- 33. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1—YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.



114 E. 3RD STREET; GREENVILLE, NC 27858 p:1.252.270.5330 www.INTREPIDarchitecture.com

AYSVILLE TOWN HALL

# P.O. BOX 11527 NC LIC #: C-113 GOLDSBORO, NC 27532

PROJECT NO. PROJECT MGR. DRAWN BY

224011 D. HAM B. TREN

TEL: **(919) 778–9064** 



REVISIONS:

# DESC: DATE

DRAWN BY: DJH/SAL PROJECT #: 23018

ISSUE DATE: 04/30/2025

PHASE: CONSTRUCTION

DOCUMENTS

SHEET NAME & NUMBER

ELECTRICAL NOTES

**E4.0**1